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# The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3109  
VOL. CXXXI

SEPTEMBER 9, 1939

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

And now-Kemt  
refills at 1/-!

**NEW! TO MEET DEMANDS ALREADY  
RECEIVED FROM THOUSANDS OF WOMEN!**



It had to come! Here it is—the new Kemt Refill. Absolutely standard bottle, on to which the customer simply screws her existing Kemt Patent Spray. Fitted with a neat new cap—perfect for travelling. Designed to sell FAST at 1/-.

Both the Refill Bottle and its contents are identical with the present 1/6 pack; it is merely the Spray that costs the extra 6d.

**HOW TO GET BEST TERMS.** Refills can be obtained on Best Terms by including them in an order for a £2 parcel. Such a parcel can, of course, contain any assortment of the Silvikrin preparations and also the standard Kemt pack, 1/6 with spray. Stockists requiring smaller quantities for immediate use can obtain them through their usual supply house.

**The sensational new Silvikrin product  
that has won the hearts of more than  
one million of women in England in  
3 months**

Distributors: SCOTT & BOWNE LTD., LONDON, E.C.4

SILVIKRIN LABORATORIES, LONDON, N.10



# THE BIGGEST ADVERTISER

gets you the

# BIGGEST SALES!

# IF you display 'ASPRO' advertising material!



Thousands of chemists have proved positively that when they consistently display 'ASPRO' advertising matter their sales go up by leaps and bounds. The reason for this is that 'ASPRO' is the largest advertised proprietary line. Millions of people read 'ASPRO' advertisements, so the chemist who gives displays of 'ASPRO' advertising matter gets the benefit of the advertising just as if he put in the advertisement in his own name. The result is that new customers are brought into his shop. He not only sells 'ASPRO' but his own goods as well. Advertising is a live, active force. Contact with it and you get the benefit of its sales activity. Why not try this out yourself to-day? Fill in and post to us the coupon at the foot of this advertisement. Then we will send you by return a generous supply of FREE ADVERTISING matter consisting of window show and window stickers.

HERE'S A TYPICAL 'ASPRO' WINDOW SHOW



'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by  
**ASPRO LIMITED**  
SLOUGH, BUCKS.

Telephone: Slough 22381

No proprietary right is claimed in the method of manufacture or the formula.

To ASPRO LTD., TRADING ESTATE, SLOUGH, BUCKS.

Please send me a free supply of 'ASPRO' advertising material.

NAME.....

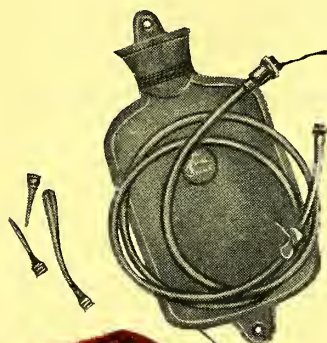
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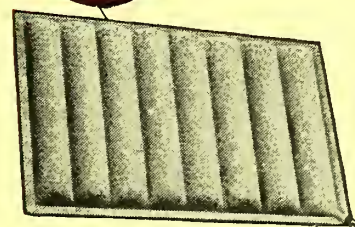
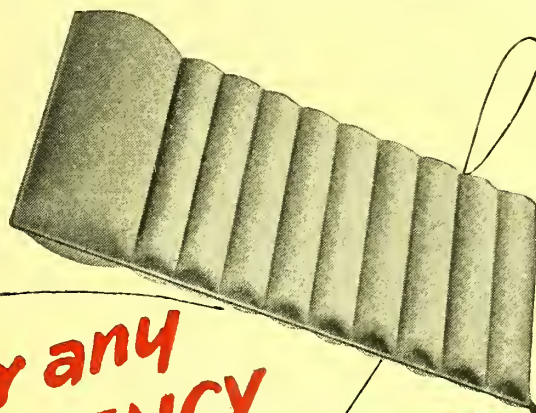




**Ready for any  
EMERGENCY**



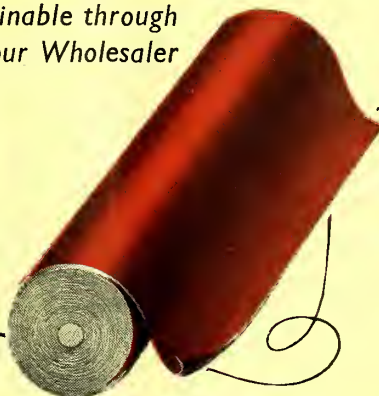
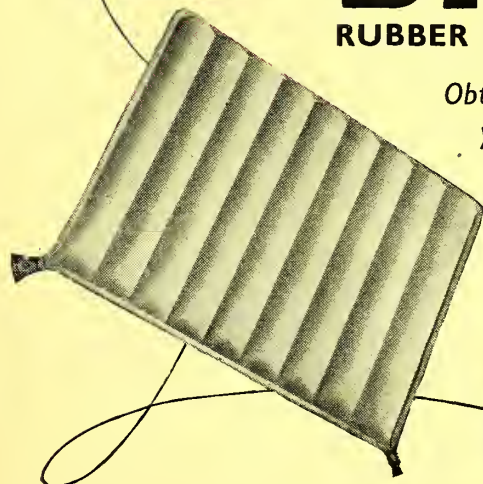
There has always been a ready sale for North British hot water bottles. The demand for these other products of the North British Rubber Company is continuous, too, and the need is so often urgent. Be prepared for the business that everyday emergencies create. There is a generous profit for you, and reasonable prices help sales.



# NORTH BRITISH

**RUBBER DRUGGISTS' SUNDRIES**

*Obtainable through  
your Wholesaler*



Fabric and Moulded Hot Water Bottles  
Waterproof Hospital Sheeting  
Rubber Air & Water Beds & Cushions  
Fabric Air Beds  
Circular and Rectangular Air Cushions  
Waterproof Nursing Aprons  
Waterproof Cot Sheets  
Surgical Drainage Sheeting, etc.



# THE MOST POPULAR\* SHAMPOO ON THE MARKET

\* Confirmed by Independent National Brands Investigation



Let "Mrs. Smith" know

the CREAM form of Eve is extra-quick and easy to use. Her whole family will use it—and that means quicker repeat orders. Clinch your sale with the 5 special advantages possessed by both Eve Shampoos.

- 1 Eve Cleanses—gently, yet quickly and thoroughly. No soap in Eve, therefore no unhealthy lime-scum to dull the hair.
- 2 Eve Beautifies—leaves hair soft, lustrous, in perfect natural condition.
- 3 Eve is Safe—no harmful alkali. Mild, yet efficient, Eve cannot affect the structure of the most delicate hair. It is specially recommended for children.
- 4 Eve Benefits—both hair and scalp; frees the hair from dandruff, with its attendant troubles; enables scalp pores and glands to function normally.
- 5 Eve Aids Setting—it leaves no clogging deposits to make hair "difficult." More, because Eve cleanses away all scalp waste and dandruff it makes hair manageable.

## This year don't let your share of these sales go elsewhere

Are you letting money slip through your fingers? Before you answer ask yourself if you're making sure of your full share of the profits from Eve Shampoo. For the money's there for you—*Eve Shampoo is now the most popular shampoo on the market.* And every week means *more* money, because every week—through nearly 30 national newspapers and women's magazines—powerful, distinctive advertisements make *more* women buy Eve Shampoo.

It rests with you to make their custom *yours*. All you need do is display Eve Shampoo on your counter; tell them of Eve's big advantages, and especially of the handiness of Eve, Cream for the whole family. And here you can use the goodwill already in the minds of those who use Eve Powder to sell them the 6d Eve Cream, with the higher turnover it shows you. Try it—it works!

## Display and Recommend *Eve Shampoo*

**CREAM 6<sup>D</sup> A TUBE POWDER 2<sup>D</sup>**

THREE SHAMPOOS

JOSEPH WATSON & SONS LTD., LEEDS

EVT 11-146-100



# HARLENE SHELVES SOON EMPTY

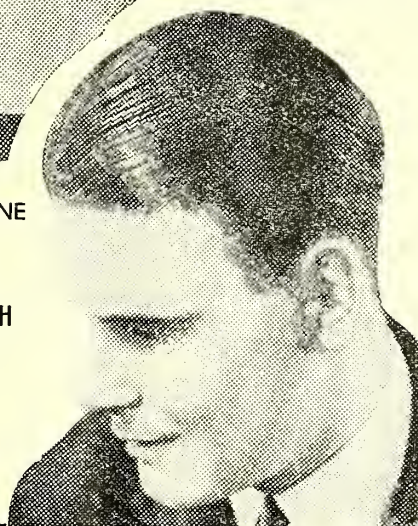


The Finest Selling Hair  
Beauty Preparations !

HARLENE Shelves Soon Empty. That is because although the name "HARLENE" has been famous for over fifty years, its popularity with the Public continues to grow and GROW ! Stock the range of HARLENE Lines and let our bold and consistent advertising reflect in increased profits for you !

## HARLENE HAIR GROWER & TONIC

CREMEX SHAMPOO    UZON BRILLIANTINE  
HARLENE WAVE-SETTING LOTION  
ASTOL HAIR COLOUR RESTORER  
HARLENE CAMOMILE GOLDEN HAIR WASH  
HARLENE CAMOMILE SHAMPOO  
HARLENE GOLDEN WAVE-SET  
HARLENE HAIR CREAM  
HARLENE <sup>Soapless</sup> <sub>Brushless</sub> SHAVING CREAM  
HARLENE SCALP OINTMENT



## SEND YOUR ORDER TO-DAY

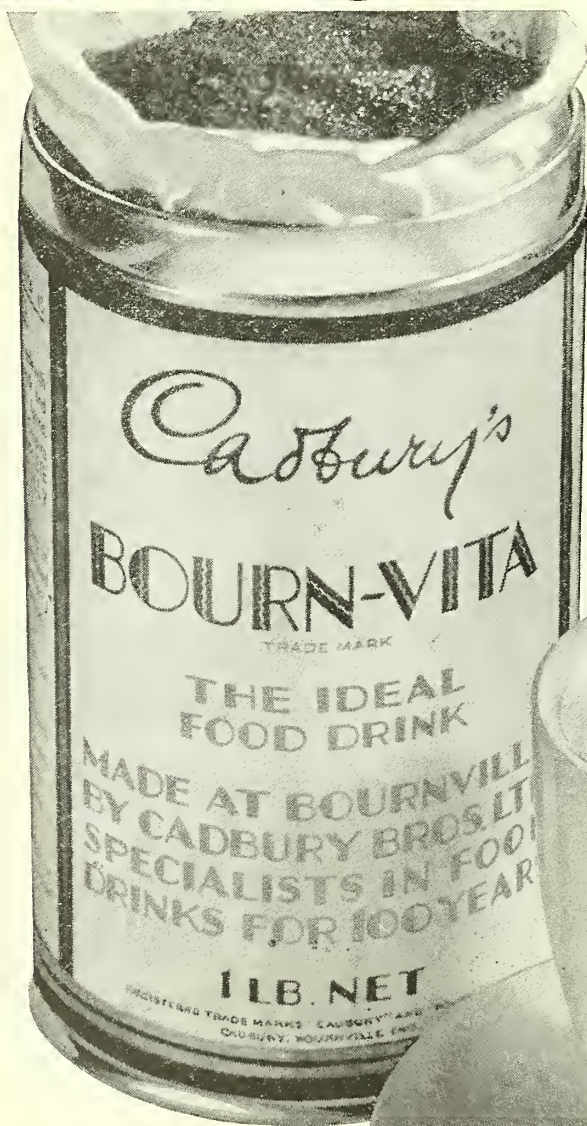
# EDWARDS HARLENE LTD.

20/26 Lamb's Conduit Street, London, W.C.1



# Cadbury's BOURN-VITA

THE IDEAL  
FOOD DRINK  
FOR  
DIGESTION  
SLEEP AND  
ENERGY



1-LB. 2/9

$\frac{1}{2}$ -LB. 1/5

$\frac{1}{4}$ -LB. 9d.



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# DOUBLE OPPORTUNITY FOR PROFIT!

## RETAIL PRICES :

'CURICONES.' One bottle 5/-  
Three bottle package 14/-  
Six bottle package 24/-

Write to-day for details to :  
**STEPHEN MATTHEWS & CO., LTD.**  
Manufacturing Chemists  
19/21 FARRINGTON ST., LONDON, E.C.4

## CURICONES

## ANTI-RHEUMATIC CAPSULES

National Advertising and the recommendation of over 6,000 doctors are building 'Curicones' into a household word. Share in the vast weekly sale of over 300,000 capsules!

And—

## STE-MAT

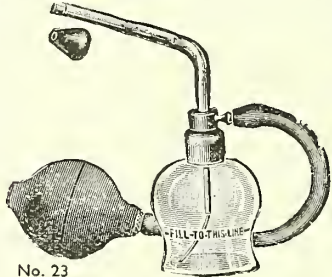
NASAL BALM

In a nation-wide investigation 81% of sufferers stated that they found STE-MAT more effective than any other cold or catarrh remedy they had tried.

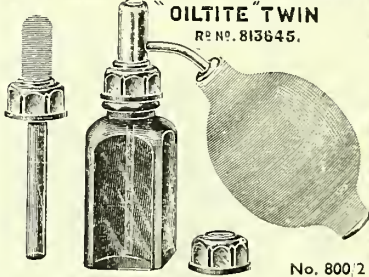


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**STANDARD ATOMISERS** Made by  
**M. J. FECHER Ltd.**  
 10 DOD ST., LONDON, E.14  
 Phone: EAST 3226  
**THE RANGE COMPRISES 21 PATTERNS**



**FOR WATER OR LIGHT OILS**

**SCREW MOUNT CORK MOUNT**

2/9 each  
16/- 1/2 doz.

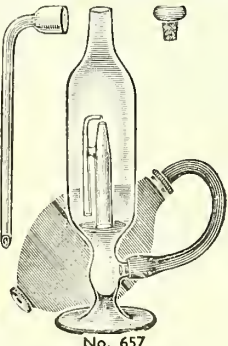
2/6 each  
14/- 1/2 doz.

**FOR DROPPING OR SPRAYING FOR NOSE**

2/6 each

**WITH ADAPTOR FOR THROAT - - - 2/9 each**

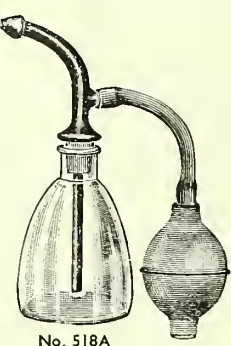
Each Outfit in box with illustrated label



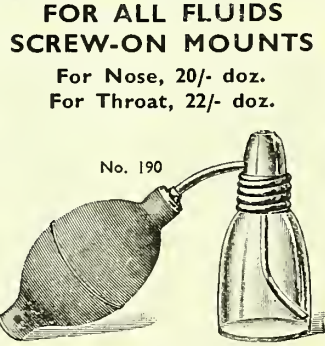
**ALL GLASS FOR THROAT OR NOSE**  
 2/6 each or 14/- 1/2 doz.

●

**One-Piece Either THROAT OR NOSE**  
 3/- each or 17/- 1/2 doz.



**A STURDY THROAT SPRAY. STOUT VULC. MOUNT**  
 24/- doz.  
 With **DOUBLE BELLOWS**  
 28/6 doz.

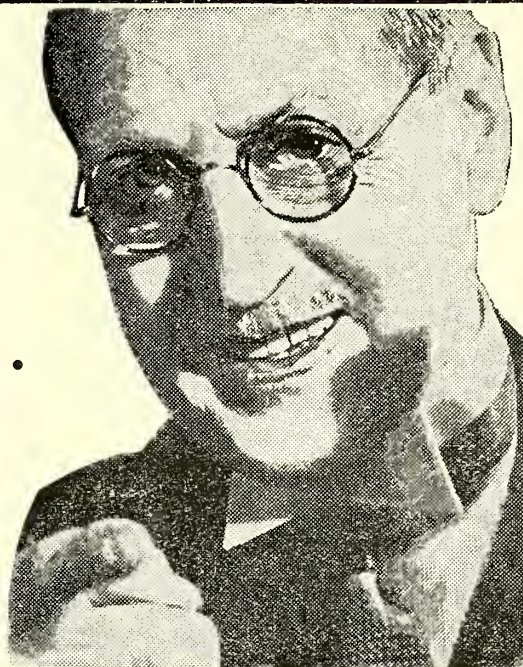


**FOR ALL FLUIDS SCREW-ON MOUNTS**  
 For Nose, 20/- doz.  
 For Throat, 22/- doz.





For you only  
Mr. Pharmacist . . .  
extra profit on  
**Simpson Iodine  
Lockets & Socks**

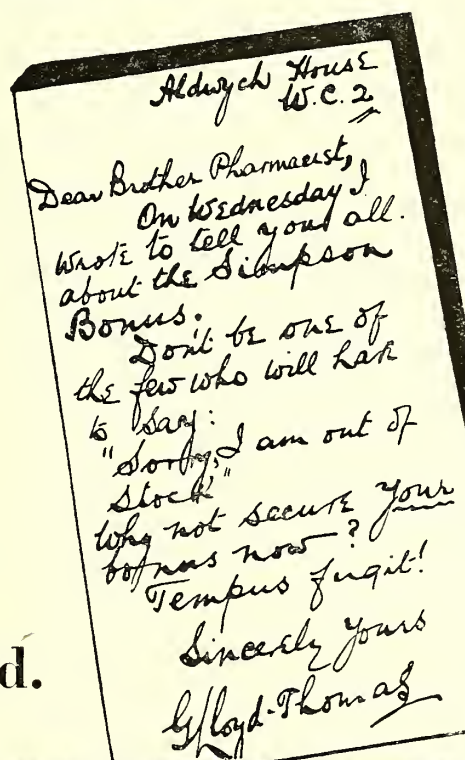


and our new toilet product  
**Simpson Iodised Hairfood**  
is included in the bonus too

The House of Simpson propose to carry on normally in all respects. As a tangible evidence of confidence they offer the customary Autumn Bonus this year for Lockets, Socks and a new line! You may rest assured that your purchases on these Bonus terms will be fully supported by a full scale well-timed advertising campaign.

Be calm, be confident—carry on as usual. Fill in the stamped Order Form and mail it directly you receive it, for after Saturday, September 23rd, it will be too late.

**J. W. Simpson (Chemist) Ltd.**  
Aldwych House, London, W.C.2





**STREAMLINED FOR SPEEDY**

**HALEX** ANNOUNCE

**A SENSATIONAL NEW**

*Streamline*

**CASE**



**HERE'S THE TOOTHBRUSH  
FOR THIS MODERN-MINDED AGE!**

First to put toothbrushes into hygienic transparent envelopes, Halex now leap the next step ahead with a brand new packaging idea to boost your Halex sales! You can see it here—a graceful hanging container in gleaming transparent plastic. Customers can see that the brush is completely protected from dust and from handling; name, price and quality of bristle are clearly shown. What display value this pack has! Nothing like it has been seen here before. And Halex have a complete range of new ideas to draw all eyes to the big-selling Halex toothbrushes in your window, on your counter and on your shelves.

**THE BRUSH WITH  
SPRINGY BRISTLES**

*Three shapes at*

*Others from 6d to 2/-*

**1/-**

**EACH IN THE 'STREAMLINE' CASE**



# SELLING!

LAUNCHED WITH A  
SPECIAL BONUS OFFER THAT  
GIVES YOU

**75%  
PROFIT!**

NEW  
WINDOW  
DISPLAY

NEW  
SHELF  
DISPLAY

NEW  
BOXES

This beautiful new 'Streamline' Case is launched with a special Bonus Offer to help you make the most of its enormous sales value! Halex toothbrushes ordered before September 30 will arrive in the new 'Streamline' case—and there will be *two FREE brushes added to every dozen you order*. That means you will sell Halex brushes at 75% PROFIT! Let's work it out:—

Suppose you order a gross of 'shilling' brushes. That costs you 96/-.

But instead of 144 brushes, you get 168 (two free brushes added to every dozen).

Then you sell your 'gross' for 1/- each. That brings you 168/-

Bought for 96/- . . . sold for 168/- . . . that gives you a profit of 75%!

## HEAVY ADVERTISING!

Puts your customers on the watch for the toothbrush in the 'Streamline' Case!

In the *Daily Mirror*, the *Daily Sketch*, *Picture Post*, and other big circulation national papers, strong advertisements announce the new Halex 'Streamline' case. People will be looking for the 'Streamline' case in your shop!



the brush  
for doing  
**HALEXERCISE!**



**HALEX LIMITED · HALE END · LONDON · E4**



talk to 3 million families seven days a week through the

## VASELINE HAIR TONIC AND OPTREX RADIO TIMES



Keep your hair lustrous and healthy this quick, easy way

**SALT WATER** washes away oils that are essential to healthy hair! Hot sun dries, bleaches and splits hair! Together, sun and salt water cause **DRY SCALP** — make your hair dull and lifeless.

"Vaseline" Hair Tonic is the hair dressing specially made to end Dry Scalp. Every morning sprinkle on a few drops, rub in with the finger-tips until your scalp tingles pleasantly.

After this "Vaseline" Hair Tonic massage you can swim or lie in the sun, and know that your hair is absolutely protected. Afterwards your hair will comb perfectly into place. You'll feel and look smart again!

**New economy size at 2/6**  
There is now a 2/6 size of "Vaseline" Hair Tonic containing twice as much as the 1/6 bottle. Not applicable to Eire.

**FREE.** For a trial bottle of "Vaseline" Hair Tonic Sizes 1/6, 2/6 and 3/6, name and address in and packet of "Vaseline" Soapless Shampoo send 2d. (for postage, etc.). name and address in black letters to Dept. 4213, Chas. B. H. Manufacturing Company Ltd., Victoria Road, London, N.W.4



**Vaseline**  
YOUR HAIR  
**HAIR TONIC**

**P.S. Don't forget to use "Vaseline" Soapless Shampoo, 4/6 a packet**

Keep your eyes clean

Never has there been so much danger of infection from dirt as there is to-day. Dust, smoke, thick atmospheres all increase daily and bring with them millions and millions of germs. Most susceptible of all your organs to these dangers are your eyes — and yet you neglect them.

You must learn to keep your eyes clean — to bathe them regularly in Optrex brand Eye Lotion. Optrex is specially prepared to dissolve and float away the dirt and waste matter which accumulate in the eye during the day's work or the night's sleep. Optrex will give your eyes such a lift and tonic that you will look at the world with new zest and energy.

**WHAT OPTREX IS AND DOES**

Optrex is a carefully balanced combination of rare plant extracts. It activates the circulation of the network of veins of the conjunctiva, neutralises the effect of microbes and fortifies the inflamed eyelids.

Optrex is sold by all chemists at 2/6 (with free eye-bath) and 3/6 (with free eye-bath). It is used three times the quantity (without eye-bath). Whether you wear glasses or not, you should have your eyes examined at regular intervals by a qualified practitioner.

**For you, Madam! The Optrex Eye Mask**  
For use after bathing your eyes with Optrex Eye Lotion. Does away with lines and crowfeet and tired skin. Enhances the natural sparkle. Soothes the whole nervous system. From your Chemist 4/6 per jar of twelve.

**Optrex**  
EYE LOTION

OPTREX LTD., Wadsworth Road, Perivale, Middlesex.

### OTHER PRODUCTS FOR YOU TO DISPLAY

Addis Toothbrushes  
All-in-one-Kennel Meal  
Alka-Seltzer  
Allenburys Diet  
Allenburys Pastilles  
Angiers Emulsion  
Andrews Liver Salts

Boovril  
Bengers Food  
Bob Martins Condition  
Powders  
Bourn-vita  
Bisurated Magnesia  
Braggs Charcoal  
Beechams  
Benax  
Brylfoam  
California Syrup of Figs  
Crookes Halibut Liver  
Oil  
Carters Little Liver Pills  
Calverts Tooth Powder  
Cromessol Disinfectant  
Perfumes

Dettol  
Dermina  
D.D.D. Prescription  
Erasmie Shaving Stick  
Eucryl Tooth Powder

Famel Syrup  
Fynnon Salt  
Gibbs S.R. Toothpaste  
Gibbs Dentabs  
Gibbs Dentifrice  
Gibbs Cold Cream  
Gibbs Shaving Cream  
Genasprin  
Glymiel Jelly

Horlicks  
Hind's Honey & Almond  
Cream  
Instant Postum  
Iron Jelloids

Kent  
Kolynos  
Livaclean  
Liverpool Virus  
Lux Toilet Soap  
Lavona Hair Tonic

Macleans Brand  
Stomach Powder  
Milk of Magnesia  
Tablets  
Meritor Toothbrushes  
Macleans Peroxide  
Toothpaste  
Musterole

Nostroline  
Odol Toothpaste  
Optrex Lotion

Pears Soap  
Ponds Creams  
Phosferine

The Radio Times is read by around 3 million families each week. An average household contains four people. So the Radio Times reaches about 12 million people, or more than one quarter of the total population of the country. Regular advertisers in this magazine talk to these millions and interest them in their products. There are thousands of families in your district who have seen the advertisements illustrated here. Are you displaying these products and letting your customers know that you have them in stock?

Feature Goods Advertised in

# RADIO TIMES

REACHES 1 IN 4 OF YOUR POTENTIAL CUSTOMERS

They are advertised Regularly in the Radio Times



# WEEKLY . . . . ANNOUNCEMENTS

## CARRY ON

Here at Maw's we are doing our best to carry on as usual, despite innumerable difficulties. Communications are not easy and all transport is difficult. We also have unexpected staff alterations which cannot be adjusted quickly.

Volunteers are doing work in various Departments, to which they are not necessarily accustomed. We have good stocks of most lines of bread and butter Sundries and we can supply your orders, if you give us time.

We also have limited stocks of a large range of Fancy Goods in the Christmas List which, owing to the ban on importations of toilet goods, are irreplaceable.

Our representatives are getting a daily letter advising them of changes in the stock position.

## SURGICAL DRESSINGS

Although you know us as substantial manufacturers of Surgical Dressings, this position is also difficult.

Orders are being executed in strict rotation and, in fairness to everyone, we are only executing orders and have only accepted orders for our regular Surgical Dressings customers.

You will appreciate that the position in this section of our business has been unprecedented since August, 1914.

It is, unfortunately, impossible to book the Dressings lines on each order which we are unable to execute. Please re-order against your actual requirements, as you receive each consignment. Stocks are being rationed to each regular customer.

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Our Warehouse at Cromer Road, New Barnet, Herts, is nearly completed. It is probable that we shall transfer to Barnet in about one month's time. All customers will be advised of full details.

If possible, one or two Departments carrying urgent goods will be transferred first, but you and our representatives will be fully advised.

In the meantime, our official address is 7-12 Aldersgate Street, London, E.C.1. Telephone number: National 2468. Telegrams can be addressed to this telephone number, or our telegraphic address, which is Eleven, Cent, London.

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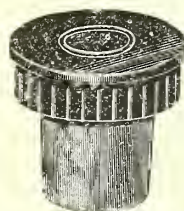
Stocks of their products have been warehoused in various parts of the country. The present stocks should satisfy normal requirements for a year. Arrangements are being made to obtain further supplies manufactured in the U.S.A.

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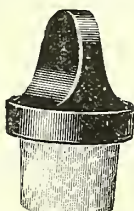
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## IMPORTANT NOTICE TO THE TRADE

Owing to present difficulties there is a slight delay in delivery, but in a few days we anticipate our delivery service will be running normally.

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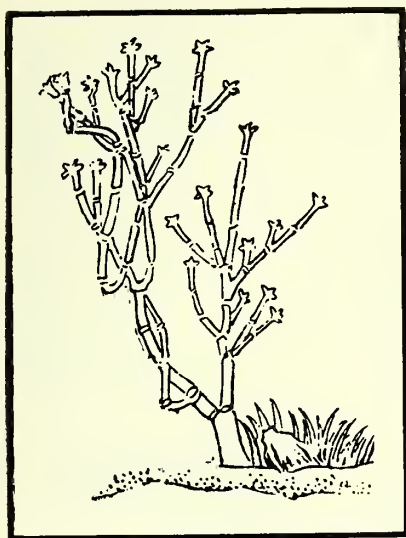
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*The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions*

Published Weekly at

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## News of the Week

### Late News

As the temporary arrangements for the publication of the *C. & D.* necessitate our going to Press earlier than is usual, late items of news and market prices will be published in the Coloured Supplement.

### Chemists' Exhibition Cancelled

Owing to the war in which this country is now involved, the Chemists' Exhibition arranged to take place at the Royal Albert Hall, London, from September 18 to 22, cannot be held.

### Business Changes

CIBA, LTD., 40 Southwark Street, London, S.E.1, are to conduct business from their new laboratories: Horsham, Sussex. Telephone: Horsham 1234.

SCHERING, LTD., 185 High Holborn, London, W.C.1, ask that all correspondence be addressed to them at B and D Film Studios, Boreham Wood, Elstree, Herts.

H.W. GRAESSER-THOMAS, LTD., 49 Leadenhall Street, London, E.C.3, have removed to a temporary address at Pennview, Burkes Road, Beaconsfield. Telephone: Beaconsfield 398.

KEITH PIERCY, LTD., Shell-Mex House, Strand, London, W.C.2, state that all correspondence should be addressed to them at Oldbury, Birmingham. The London office is temporarily closed.

THE ETHICAL PHARMACEUTICALS ASSOCIATION, 4 Lloyds Avenue, London, E.C.3, have acquired temporary accommodation at Deronne, Oxenden Wood Road, Chelsfield, Kent. Telephone: Farnborough 3152.

SANGERS, LTD. have been evacuated to Purley Park, Pangbourne Road, nr. Reading, where all communications (except orders) should be sent. Orders should be forwarded as usual direct to 258 Euston Road, London, N.W.1.

PHIL-SANO, LTD., 106 Great Russell Street, London, W.C.1, have opened a branch office at Royalty Parade, Bourne End, Bucks, where all communications should be sent.

R. W. GREEFF & CO., LTD., Thames House, Queen Street Place, London, E.C.4, state that all communications should be addressed The Retreat, Avenue Road, Hockerill Park, Bishop's Stortford, Herts. Telephone: Bishop's Stortford 93.

ALBRIGHT & WILSON, LTD., chemical manufacturers, Shell-Mex House, Strand, London, W.C.2, announce that until further notice correspondence should be addressed to their works at Oldbury, Birmingham. The London office is temporarily closed.

CLIFFORD CHRISTOPHERSON & CO., LTD., chemical merchants, Shell-Mex House, Strand, London, W.C.2, inform us that all communications should be addressed to them c/o Albright &

Wilson, Ltd., Oldbury, Birmingham. The London office is temporarily closed.

A. ELDER REED & CO., LTD., 28 Monument Street, London, E.C.3, have temporarily removed their head office to 60 The Gallop, Sutton, Surrey. Telephone: Vigilant 4759. They have established a branch office at 9 Pinner Hall Road, Pinner, Middlesex. Telephone: Pinner 5321.

CARNEGIE BROTHERS, LTD., 227-229 Essex Road, London, N.1, have removed the chemical section of their business to Welwyn Garden City. All communications should be addressed: Carnegie Chemicals (Welwyn), Ltd., Tewin Road, Welwyn Garden City. Telephone: Welwyn Garden 336.

THE BRITISH CHEMICAL & DYESTUFFS TRADERS' ASSOCIATION, LTD., Coronation House, 4 Lloyd's Avenue, London, E.C.3, have temporary alternative accommodation at "Deronne," Oxenden Wood Road, Chelsfield, Kent. Correspondence should be sent to that address and duplicates forwarded to the Association's London office.

### Pharmaceutical Society

The routine business of the Pharmaceutical Society of Great Britain is now being conducted from Birdsgrove House, Mayfield, near Ashbourne, Derbyshire (Telephone: Ashbourne 236). All correspondence should be sent to this address. In view of the congestion of the telephone service, members are asked to write and not to telephone. The office at Bloomsbury Square will remain open from 10 a.m.-4 p.m. daily for the present, and will deal with urgent business. Scottish business will be dealt with from 36 York Place, Edinburgh, as hitherto. It is particularly important that members should keep the Society regularly notified of changes of address.

The Society's September examinations will not be held. The Emergency Committee of the Council have recommended to the Boards of Examiners that the results of these examinations should be awarded upon reports of the candidate's work in his School and by his performance in the School examinations. The principals of schools are being invited to make their recommendations to the Society for submission to the Boards of Examiners and the decisions of the Boards will be made known as soon as possible to the candidates. These candidates can therefore make their immediate plans on the basis of the above information. The notification dated September 2 sent to candidates concerning fees remains.

The Home Office request members of the Society in business who join the A.R.P. services as regular members to make certain that their hours of duty will not interfere with their normal pharmaceutical work.

## CONTENTS

See p. 285



Pharmacists are members of a "reserved occupation." They will be required primarily for the provision of a pharmaceutical service for the civilian population and that work will be their form of National Service. They should not volunteer at the present stage for service in the Defence Forces. It will be understood from the above that pharmacists in retail business are strongly urged to remain at their present work until they are otherwise informed, offering their services locally as indicated above.

### Import Duties

In the House of Commons on Sept. 5, Captain Crookshank, Financial Secretary to the Treasury moved a resolution on which to found the Import Duties (Emergency Provisions) Bill, the object of which, he said, was that during the period of the emergency, or a lesser period if practicable, the statutory function of the Import Duties Advisory Committee should be suspended, and that the power of making an order or granting a licence should be exercised by the Treasury. There was no intention of making wide alterations to Customs duties as they now existed.

The resolution was agreed to and reported to the House. The Bill was brought in and read the first time.

### Inquests

At Crewe, on August 30, an inquest was held on Kathleen M. Morris whose death was due to aspirin poisoning and a verdict was returned accordingly.

At Huddersfield, recently, a verdict of "death from barbitone poisoning, self-administered," was recorded at an inquest on Patricia F. Pearson. According to police evidence, deceased had obtained three 5s. packets of sedobrol from local chemists during the month of July. In response to questions by the coroner, a medical practitioner said it would take a large amount of sedobrol to cause death. On the other hand, barbitone was a dangerous drug. Nembutal capsules, which were a barbitone drug and which had been found in possession of the deceased, could not be obtained easily. Another medical man who conducted the post-mortem examination stated that if deceased was in the habit of taking large doses of bromide, it would render her liable to die from a smaller dose of a barbitone drug than was usually fatal. The capsules found in possession of deceased contained nembutal and aspirin.

At Durham, on August 29, the inquest was resumed on Mrs. A. Banks. Among the exhibits at the proceedings were two small boxes found at the home of the deceased and which a male nurse at the county mental hospital stated contained aspirin tablets supplied to him by the pharmacist at the institution. Mr. J. Gilliland, M.P.S., pharmacist at the Durham County Mental Hospital, Winterton, stated that in addition to aspirin, one of the boxes contained novalgin tablets. The male nurse said he left a box at the home of deceased as a matter of convenience. He had heard of barbitone but had never used it nor any of the derivatives of barbituric acid. Mr. Gilliland replying to the coroner said barbitone was used at the mental institution. Novalgin tablets were used for various complaints and being a non-poisonous preparation could be obtained by anyone at a chemist's shop. The inquest was adjourned until September 12.

### Miscellaneous

**CLOSING ORDER.**—Bath City Council has made a closing order in respect of chemists shops which must be closed on Monday, Tuesday, and Wednesday at 7.30 p.m.; Thursday at 1 p.m., Friday at 8 p.m., and Saturday at 8.30 p.m.

**BOTANICAL RAMBLE.**—A botanical ramble for Leeds chemists under the leadership of Mr. G. A. Nelson, Ph.C., F.L.S., is to take place on September 6. Ramblers will meet at the tram depot, near St. Chad's Church, Headingley, at 6.30 p.m. A meeting mainly for Spen Valley and Dewsbury members is arranged for September 12 at the Woolpacks Hotel, Wakefield, at 8.30 p.m.

**IN THE COURTS.**—At Old Street, London, Police Court, on August 30, Henry J. Smith was charged on remand with stealing two tins of liver salt and a bottle of hair cream from the pharmacy of Mr. G. Barnard, M.P.S., Hackney Road. Accused was bound over.—At the same police court, on August 31, Arthur Berton, Ltd., Old Street, were summoned for employing young persons contrary to the provisions of the Factory Act. The cases were dismissed under the Probation of Offenders Act.

**I.O.M. SUNDAY TRADING PROSECUTIONS.**—Since the operation of the new Shops Act which legalises the Sunday sales of certain articles in the Isle of Man during the summer season the police have been active in instituting prosecutions. Shop-keepers who deal in a variety of goods are finding it difficult to comply with some of the regulations, particularly that which prohibits the sales of certain articles after 1 p.m. while allowing other goods in the same shops to be sold without any limitation of hours, and the regulation which insists that all articles which cannot be sold must be effectively covered up so that it is clear they are not exposed for sale. Recently Miss Alice Burns Hutcheon, M.P.S., Prospect Hill, Douglas, was prosecuted for exposing for sale goods of a kind not permitted by the Act. Miss Hutcheon said she thought the goods were sufficiently covered up. The window was not covered nor the show cases round the walls, which contained mixed goods, but she had covered the counter and had also removed toilet goods from a table in the shop. She had taken steps to ensure that the goods that were prohibited would be covered effectively in future. Bailiff Johnson said he felt this was a case where a genuine attempt had been made to comply with the Act and he would only impose a fine of 5s.

## Irish Notes

### Irish Chemists at Lourdes

The first official pilgrimage of Irish pharmaceutical chemists which went to Lourdes recently from Dublin, was singularly honoured by Mgr. Choquet, Bishop of Tarbes and Lourdes, during their stay there. The Brancardier Chapel was specially allotted by the Bishop for the use of the Irish Chemists' Pilgrimage, who had the Rev. E. J. O'Doherty, O.M.I., as their Chaplain. On their arrival in Lourdes Father Doherty, Mr. James J. Kerr (Registrar of the Pharmaceutical Society of Ireland), and Mr. James A. O'Rourke, Dun Laoghaire, a former president of the Pharmaceutical Society, were received by His Excellency the Bishop, and later the entire party were received. Mr. O'Rourke was appointed vice-president for Ireland of the International



**IRISH PHARMACISTS AT LOURDES.**—The group includes Messrs. P. P. Buckley, J. A. O'Rourke, P. Hanley, J. F. O'Hara, T. B. O'Sullivan and (front row), Miss Sheila Forde, Mr. P. Fullan, Rev. E. J. O'Doherty, Mr. T. Burke, Miss Eileen Burke, and Mr. J. J. Kerr.

Pharmaceutical Association of Our Lady of Lourdes by his Excellency, and two lady members of the pilgrimage were given the Silver Medal of the Asile. Mgr. Choquet intimated to the party that he proposed to visit Ireland in 1941, and was invited to lunch with the Irish members of the International Association on that occasion. For several years past under the leadership of Mr. Kerr parties of Irish pharmacists have been travelling to Lourdes to serve as brancardiers, but this year the Archbishop of Dublin, His Grace Most Rev. Dr. Byrne, marked his approval of their excellent work by making the party an official pilgrimage. Pharmacist members of the pilgrimage included Messrs. J. J. Kerr, J. A. O'Rourke, P. P. Buckley, Dublin, J. F. O'Hara, Trim, T. B. O'Sullivan, Dublin, P. Hanley, Fermoy, P. Fullan, Naas, T. Burke, Cavan, Miss Sheila Forde, Castlereagh, Miss Eileen



Burke, Drogheda, and Mr. J. J. Gaynor, law adviser to the Pharmaceutical Society.

### Irish Drug Association

Mr. P. A. Brady, president, was in the chair at the August meeting of the Committee of the Irish Drug Association. Arising out of the minutes a discussion took place on the Shops (Hours of Trading) Act, 1938, and the Holidays (Employees) Act, 1938. It was suggested that the Association should be represented and give evidence at the inquiry on earlier closing of grocers' shops in the Dublin and Dun Laoghaire areas. The Committee felt that chemists' interests would be best served by adhering to the decision of the previous meeting and not give evidence. The secretary was instructed to state in reply to a member's query, that messengers are entitled to one week's holidays under the Holidays (Employees) Act, 1938. Members who have not already allowed for this provision are recommended to do so immediately. It was decided to postpone the holding of a provincial delegates meeting until autumn. The Committee emphasised that members should ensure that their names do not appear on the lists issued by guilds, co-operative societies and similar bodies. These lists are usually published at the beginning of the year, but the compiling takes place usually from August. During the last few years chemists names have not appeared on these lists, but the Committee stressed the matter not only as a reminder to old members, but for the information of new members. The Committee decided to write to all wholesalers pointing out the co-operation received from one wholesale house which refused to supply patent medicines to the canteen of the Civic Guard Depot, Dublin. A discussion on the activities of local associa-

tions, and the number of licentiates on the Register of the Pharmaceutical Society then took place and the meeting concluded.

### Miscellaneous

**NEW BUSINESS.**—Mr. Michael W. Lawless, Ph.C., is shortly opening a new pharmacy at High Street, Tullamore, Offaly.

**THE GENERAL COURT OF APOTHECARIES** met in Dublin recently and held their annual elections which resulted as follows: *Governor*, Dr. T. G. McGrath; *Deputy Governor*, Dr. Myles Keogh; *Representative on the General Medical Council*, Dr. J. C. Flood; *Court of Directors*, Doctors B. Burke-Kennedy, J. D. Daniel, J. Devane, J. E. McCarthy, R. P. McDonnell, J. Sheppard, sen., J. F. Sheppard, R. Stumpf, J. C. Flood, F. S. Lavery, R. P. McMahon, J. B. Magennis, A. T. McKay, T. G. McGrath (director and registrar).

## Scottish Notes

### Miscellaneous

**NEW PREMISES.**—Mr. Gilbert J. Spears, M.P.S., 247 Great Western Road, Glasgow, has opened new premises at 5 Southmains Road, Milngavie.

**REPRESENTATIVES.**—Mr. James H. McConnachie, M.P.S., has been appointed to represent British Cod Liver Oil Producers (Hull), Ltd., for the whole of Scotland, excluding Lanarkshire, in which area Mr. J. Russell is representing the company.

# Topical Reflections

By Xrayser

### National Requirements

I had not supposed that I should ever receive a copy of *THE CHEMIST AND DRUGGIST* issued from a provincial address: as an old reader I congratulate you on the success of the first number so dispatched. The variations in typography from those long familiar are indistinguishable as such to anyone not intimately conversant with that fascinating subject, and the contents of the issue have the normal range of topic. I shall preserve my copy of No. 3108 with unusual care. During the early days of the war of 1914-18 many people talked of conducting business "as usual": it was not long, however, before the slogan was found to be at variance with stern necessity. We are wiser to-day. One of the first things that occur to me is the multiplicity of detail confronting us or in prospect; all of it will have to be co-ordinated if jarring and dislocation are to be avoided. There is a vast number of matters, from hospital trains to goldbeater's skin, affecting pharmacy: they must be brought within the scope of the practicable, and anything like an academic handling of them will cause irritating delay. An illustration that comes readily to mind is afforded by the initials W.E.F., standing (need I explain?) for War Emergency Formulary. As my copy of this publication, issued as an addendum to the British Pharmaceutical Codex in 1917, reminds me, the General Medical Council withdrew from the British Pharmacopœia, in July of that year, most of the preparations containing glycerin, sugar or both. Some of the results obtained with what the *C. & D.* described at the time as "and/or-less delicacies" were quite unsatisfactory from a pharmaceutical point of view; but that is too long a story to be reopened here.

### Emergency Legislation

A selective perusal of two volumes of *THE CHEMIST AND DRUGGIST*, one for the second half of 1915 and the other for 1919, has proved instructive. As a matter of course, every good citizen will stand to his or her post, whatever that post may be (and to decide that may not be easy in all cases); but having prepared, to the best of our ability, for known and unknown emergencies, we shall have to face the fact that some of the Orders in Council and Statutory Rules to be promulgated will impose severe restrictions on the conduct of necessary business, and that a proportion of these may be difficult to interpret. It may even prove that only a High Court decision can settle what

some of them will mean. We shall cheerfully submit to grave inconvenience in the national interest—some of us have already begun to do so—remembering that the national cause is paramount. We look to you for the discussion and explanation of such Rules and Orders as concern us: the full implication of some will, it is certain, need your expert guidance. No one, I presume, objects in principle to the Government assuming at the outset of the present struggle such wide powers as the Emergency Powers (Defence) Act confers; but I venture to add that friction with Government departments can best be avoided by willingness on the part of officials concerned to follow expert advice—always obtainable if one knows where to seek it. I, for one, look forward to a reappearance of the heading "Removal of Trade Restrictions," which I have just seen in your issue of May 3, 1919.

### Education for Industry

Although its programme at this year's meeting has, for an obvious reason, been curtailed, the British Association has rendered the English-speaking world a service in giving publicity to certain topics of scientific and sociological importance (pp. 263, 267). The remarks of Dr. A. P. M. Fleming on education for industry are a case in point. The crucial problem, it seems to me, is that of reconciling the claims of a good general education with those of specialised knowledge. To put the matter in another way, what kind of man or woman are we trying to help in developing? It is against the interests of good citizenship to attempt to force a young mind into a mould. A very few people in each generation—the late Lord Acton and the late Lord Fletcher Moulton are examples—seem able to assimilate unlimited masses of learning; but for most adolescents there comes a time when additions to general knowledge must cease and concentration on vocational study must be the rule. How and when to effect this change is a matter for a wise parent or teacher with a wide experience of life. A specialist of the type reported as saying that after beetles all else is trifling is a learned creature of sadly narrow outlook: on the other hand, a jack of all trades . . . . With one remark of Dr. Fleming's I am in full agreement, the remark that in giving circumstances it should be possible "to eliminate the system of part-time evening study." I have long held the view that the growing brain should not be stimulated in this way at the close of an ordinary day's work.



# War-time Notices

**Oxygen Cylinders.**—The Ministry of Health have issued an appeal that there should be no hoarding of oxygen cylinders, empty or full, whether by hospitals, private individuals, or firms. There are ample supplies in the country, but there is a tendency to overstock and hold supplies in amounts that may be excessive to requirements. Excellent arrangements for speedy replenishments exist throughout the country.

**Limitation of Imports.**—The Board of Trade announce that they have made an Order under the Imports, Exports, and Customs Powers (Defence) Act, 1939, prohibiting imports of certain goods except under licence. The object of the Order is to limit with effect from September 5 imports of luxuries and of goods of which there are sufficient home supplies, in order to conserve exchange for the additional purchases of other products required in war time. Among the categories of goods covered by the Order are pottery and glass, certain chemicals and paints, soap, perfumery and toilet requisites, and luxury foodstuffs. Inquiries should be addressed to the Import Licensing Department, 25 Southampton Buildings, Chancery Lane, London, W.C.2. The Board of Trade also announce that all communications for the Export Licensing Department, hitherto at 80-82 Pall Mall, should be made to Inveresk House, Strand, W.C.2.

**Control of Materials.**—The Minister of Supply has appointed a number of persons to act as controllers of materials, including Mr. N. Garrod Thomas (sulphuric acid), Mr. F. C. O. Speyer (ammonium sulphate), Mr. A. V. Board (alcohol, molasses and solvents). Orders made by the Minister for the control of essential materials deal with certain articles of which it is necessary for immediate action to be taken by the Government under their emergency powers. The materials covered by this action are: non-ferrous metals (copper, lead and zinc), aluminium, wool, flax, hemp, molasses and industrial alcohol. Arrangements have been made to secure that trades and industries concerned shall be promptly notified of the scope of the initial control and of the procedure which they should adopt. The degree and method of control for each material necessarily varies with varying circumstances and trade practice, but the main objects of the control are the regulation of prices, and the distribution of supplies equitably throughout the trade, with preference to meet Government and essential civil requirements.

Any communication in connexion with the control of Molasses and Industrial Alcohol should be addressed to the Molasses and Industrial Alcohol Control, Ministry of Supply, Great Burgh, Epsom, Surrey.

**Trading with the Enemy.**—The Board of Trade have issued the following notice:—

(1) Traders, shipowners, and others are warned that from the outbreak of war it is unlawful to transact business or to have other dealings with enemies without official permission (which will not be granted save in exceptional circumstances). Offenders will be liable to heavy penalties.

(2) For the purpose of this notice the term "enemy" may be assumed to cover: (a) Governmental agencies in enemy territory; (b) Any person or business resident or established in enemy territory; (c) Any branch (in any country) controlled from a principal place of business in enemy territory; and (d) Any company or other body of persons which is constituted or incorporated under enemy law.

It does not, however, include any person by reason only that he is a national of an enemy country. "Enemy territory" includes any territory in occupation of enemy's armed forces.

(3) Traders and other persons are warned: (i) Not to pay, lend, or send money, negotiable instruments or securities to or for the benefit of an enemy or to a place in enemy territory or enter into, continue, or complete any transaction which will enable an enemy to obtain money or credit or any transaction which will release an enemy from an obligation to pay money; (ii) Not to discharge any debt due to an enemy (including debts on bills of exchange) which the enemy has assigned to a neutral assignee; (iii) Not to accept any payment from an enemy of a sum of money due in respect of a transaction unless all obligations on the part of the person receiving payment had been completed before the outbreak of war; (iv) Not to supply any goods to an enemy or for the benefit of an enemy; not to obtain any goods from an enemy; and not to trade in, or carry, any

goods consigned to or from an enemy or destined for or coming from an enemy territory.

(4) In the case of business transacted before the outbreak of war with agencies or branches in enemy territory which traded solely for the account of a parent firm or company whose principal place of business is an allied or neutral territory, objection will not be raised to the settlement of outstanding debts, on demand, by remittances to the principal place of business. If, however, the agency or branch in enemy territory was so constituted that it could have sued for the debt in its own name, payment must not be made to any person whatsoever except with the permission of the Trading with the Enemy Branch (see below).

(5) The payment of life-insurance premiums and fees in respect of patents, designs, and trade-marks both (a) in this country on behalf of enemies and (b) in enemy countries on behalf of persons here will be licensed under certain conditions.

(6) Correspondence with enemies on business matters will be permitted in approved cases, but communications will not be passed by the censorship authorities except with the prior approval of the Trading with the Enemy Branch (see below), or, in the case of communications regarding patents, designs, or trade-marks, with the prior approval of the Patent Office. Persons who desire to communicate with an enemy on business matters should therefore forward the communication to the Trading with the Enemy Branch or to the Patent Office (enclosed in a stamped, open envelope addressed to an intermediary in a neutral country), under cover of a letter explaining the circumstances in which it is desired to send it.

(7) All communications relating to trading with the enemy (including applications for licences to transact business otherwise prohibited) should be addressed to the Trading with the Enemy Branch (Treasury and Board of Trade); or, in the case of communications regarding patents, designs, or trade-marks, to the Patent Office, Southampton Buildings, Chancery Lane, London, W.C.2. The address of the Trading with the Enemy Branch is Western Galleries, Imperial Institute, Exhibition Road, South Kensington, London, S.W.7.

**War Insurance of Goods.**—The Board of Trade have, by Notice dated September 3, put into operation a scheme whereby the Board undertake, in relation to persons carrying on business in the United Kingdom as sellers of goods, the liability of insuring such persons against King's enemy risks in respect of goods insurable under Part II of the War Risks Insurance Act which are owned by such persons in the course of their business.

The liability of the Board of Trade as insurers will be determined by a policy of insurance issued in a form prescribed in the Schedule to the War Risks (Commodity Insurance) (No. 1) Order. Policies will be issued for a period ending three months after the date declared to be the outbreak of war except in the case of ships under construction, in the case of which the period of the policy will be one month from that date.

By the War Risks (Commodity Insurance) (No. 2) Order, the rate of premium has been fixed at one-half per cent. per month for a period of three months from September 3. The minimum premium payable will be 30s.

By the War Risks (Compulsory Insurance of Commodities) Order, insurance is compulsory, except where the value of a person's insurable goods does not exceed £1,000 or where the goods would not be insurable except for the special provisions of Section 11 (2) (live stock and agricultural produce). Where the value of a person's insurable goods does not exceed £1,000, insurance is voluntary. All persons insuring must insure for the full value of the goods owned by them which are insurable under Part II of the Act.

Every person who, being required by the Order to insure, does not do so is liable to a fine not exceeding £100 and a further fine not exceeding £50 for every day on which the contravention continues. Persons who have not already made application to be registered should make application for insurance forthwith to any one of the corporations designated authorised to receive applications for registration made under Section 8 of the Act. These are the principal fire insurance companies and the society of Lloyd's, and any person wishing to insure should normally apply to the insurer with whom he is principally insured against ordinary fire risks, or, in the case of ships under construction, against constructional risks.



# Company News

P.C. means Private Company and R.O. Registered Office

**STEAD & INGER, LTD. (P.C.).**—Capital £500. Objects: To acquire the business of a chemist and druggist carried on by R. Stead at 59 Middle Hillgate, Stockport, as "Hervey Banks."

**SWINDELLS BROS., LTD. (P.C.).**—Capital £1,000. Objects: To acquire the business of chemists carried on by the executors of the late R. Swindells at 30 Market Street, Hyde. Fred Swindells, 58 Joel Lane, Hyde, director.

**H. J. DUKES, LTD. (P.C.).**—Capital £100. Objects: To acquire the business of wholesale, retail and manufacturing chemists and druggists carried on by Harry and Thomas Dukes at 39 Market Square, St. Neots, Hunts, as "H. J. Dukes & Sons."

**S. PARTON & SON, LTD. (P.C.).**—Capital £500. Objects: To carry on the business of drysalers and chemists, wholesale and retail, manufacturers of and dealers in lead and enamels, etc. Samuel J. C. Parton, 9 Whitmore Road, Newcastle, Staffs, director.

**MOTTERSHEAD & Co. (ESTD. 1790), LTD. (P.C.).**—Capital £20,000. Objects: To acquire the business of a chemist and dealer in and manufacturer of electrical and medical apparatus now carried on by Albert E. H. Blackburn at 7 Exchange Street, Manchester, as "Mottershead & Co."

**P. LEINER & SONS, LTD. (P.C.).**—Capital £100,000. Objects: To acquire the business of a manufacturer of and dealer in gelatin, glue and other goods and merchandise carried on by A. Leiner as "P. Leiner & Sons," at 7 Creechurch Lane, E.C., and at 177/190 Abbey Street, Bermondsey, London S.E.

**HOWELL, HERBERT, FITZROY & Co., LTD. (P.C.).**—Capital £100. Objects: To carry on the business of consulting engineers, chemists, financiers, and promoters of any projects, processes, etc. Guy F. Lambert, 303 Carrington House, Hertford Street, London, W.1, director. R.O.: 1 Regent Street, S.W.1.

**INCORPORATED CHEMISTS (OLDHAM), LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of chemists, druggists, etc. Wm. Garside, 491 Huddersfield Road, Oldham; Ronald Gorbett, 478 Ripponden Road, Oldham; Frank Newby, 172 Waterloo Street, Oldham; Frank Moorhouse, 2 Clyde Street, Oldham; John W. Thompson, 84 High Street, Shaw, directors. R.O.: 2 Back Greenwood Street, Oldham.

**BANKRUPTCY.**—Mr. T. Brierley, 48 Balaclava Road, Derby, chemist.

**COMPANIES DISSOLVED.**—Notice has been given in "The London Gazette" that the names of the following companies have been struck off the register and the companies dissolved:—Nemo Chemical Co., Ltd.; Society for the Preservation of the Small Shopkeeper, Ltd.

**COMPANY DISSOLVED.**—Notice has been given in "The London Gazette" that the following company has been struck off the register and is hereby dissolved: Powder Puffs, Ltd.

## Voluntary Liquidation

**Denisons (Yeadon) Ltd.,** High Street, Yeadon, druggists. The statutory meeting of creditors was held at Leeds recently, when a statement of affairs was submitted showing ranking liabilities of £403 11s. 8d., of which £294 2s. 3d. was due to the trade, and £109 9s. 5d. to the bankers. The latter held a third party guarantee. The assets totalled £145. From that amount had to be deducted £12 2s. for preferential claims, leaving net assets of £132 18s., or a deficiency, as regarded the creditors, of £270 13s. 8d. The issued capital of the company was £455, and so far as the contributories were concerned there was a deficiency of £725 13s. 8d., which was attributed to the losses on the trading and the writing down of the assets. A resolution was passed confirming the voluntary liquidation of the company, with Mr. E. D. Stevenson, 13 East Parade, Leeds, as liquidator, with a committee.

## Stock Exchange Prices

£1 shares unless otherwise stated	Dec. 30, 1938	July 31, 1939	Aug. 31 1939
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	26 3	25 0	24 9
Amalg. Dental Co., 8% Prefd. Ord.	25 6	24 0	21 3
" " Deferred £1 ..	11 3	12 9	10 0
Aspro, Ltd., 5s. shares ..	11 6	13 0	11 6
Ayrton, Saunders & Co., 7½% Pref.	22 9	21 9	22 0
Beechams Pills, Deferred 2s. 6d. shares ..	7 6	8 6	7 9
Benger's Food, Ord. ..	19 6	19 6	19 6
Benzol & By-Products, Cum. Part. Pref.	18 0	20 7½	20 0
Berger (Lewis) & Sons, Ord.	48 0	44 9	42 6
Blundell, Spence & Co. ..	12 3	6 10½	6 9
Boake (A.), Roberts & Co., 5% Pref.	20 6	20 3	20 3
Boots Pure Drug, Ord. 5s. shares ..	39 3	43 0	43 0
" " 7% "A" Prefd. Ord.	32 6	30 9	28 9
Boots Cash Chemists (S.), 6% "A" Prefd.	28 6	27 6	26 3
Borax Consol'd., Dfd. Ord. ..	27 0	21 3	21 0
Bovril, Ord. ..	27 1½	23 9	24 3
" " Dfd. ..	20 4½	17 6	17 0
British Industrial Plastics (formerly British Cyanides), Ord. 2s. shares ..	2 0	1 7½	1 3
British Drug Houses, The, Ord. ..	21 9	21 6	20 0
British Glues & Chemicals, 4s. Ord.	4 4½	5 0	4 9
British Oil and Cake Mills, Prefd. Ord.	41 0	39 9	39 3
British Oxygen, Ord.	71 0	80 6	76 3
British Photo. Indus., 6% Cum. Pref.	3 3	2 9	3 0
Burt, Boulton & Hayward, Ord. ..	18 6	17 3	17 6
Bush (W. J.) & Co., 5% Pref. £5 ..	100 0	97 0	96 3
Callard, Stewart & Watt, Ord.	3 7½	1 9	2 6
Cooper, McDougall & Robertson, Ord.	27 0	21 6	21 0
Crosfield (Joseph) & Sons, 6½% Pref.	27 0	25 6	24 6
Dubarry Perfumery Ord. 1s. ..	2 4½	2 3	2 3
" " 7½% Pref.	21 6	22 6	22 6
Evans Sons "Lescher & Webb, Ord. 6s. 8d. shares	3 9	2 6	2 6
" " " " 6% Cum. Part. Pref.	6 3	5 0	5 0
Field (J. C. & J.), Ord. ..	23 9	23 9	23 0
Galloway (P. H.), Ord. 2s. ..	2 10½	2 3	2 3
" " 7½% Cum. Pref.	26 0	23 7½	22 6
Genatosan, Ltd., 1s. ..	5 0	5 3	5 3
Gossage (William), 6½% Pref.	26 9	27 9	26 6
Greeff-Chemical H'dings, Cum. Pref. 10s. ..	9 9	8 9	8 9
" " Ord. 5s. ..	5 3	6 0	5 9
Griffiths Hughes (Kruschen), Ord. ..	8 3	7 1½	6 9
Grout & Co., Ord. ..	9 3	12 6	11 6
Hodders, Ord. 1s. ..	0 7½	0 7½	0 6
Ilford, Ltd., Ord. ..	26 9	24 10½	25 0
" " 6% Pref.	25 0	23 6	23 9
Imperial Chemical, 7% Pref.	31 0	29 9	27 3
" " Ord. ..	30 9	30 0	29 9
Intern. Sponge Importers, 6% Pref.	3 6	5 0	5 0
Knight (John), 25% Prefd. Ord.	90 0	78 1½	72 6
Laporte (B.) & Co., Ltd., Ord.	83 9	60 6	58 9
Lever Bros., Ltd., 7% Pref.	28 6	27 6	26 0
" " 8% Pref.	30 6	28 6	26 0
" " 20% Prefd. 5s. ..	18 3	17 0	16 6
Lewis & Burrows, Ord. ..	21 3	21 3	21 0
" " 6% Pref.	20 0	19 3	20 0
Liebig's Ext. of Meat, Ord. £5 ..	£14 ½	£14 ½	£16 ½
Macleans 6% Red. Pref.	21 6	20 6	20 9
Mellin's Food, 6% Pref.	1 3	0 9	1 3
Nathan, J. (Glaxo), 7% Pref.	21 6	22 3	22 3
" " 8% Prefd. 10s. ..	11 4½	11 0	10 9
" " Ord. 1s. ..	6 0	4 9	4 6
Pears (A. & F.), 5% Deb. £100 ..	£107	£107	£106
Reckitt & Sons, Ord. ..	102 6	101 3	102 6
Sangers, Ord. 5s. ..	21 6	21 0	19 6
"Sanitas," The, Co., 9% Pref.	25 6	24 3	23 1½
Sanitas Trust, 10% Partic. Pref.	26 9	24 6	24 1½
Smith (Stephen) & Co., Ord. 5s. ..	8 7½	7 7½	7 0
Spratt's Patent, Ord. ..	46 6	47 6	48 6
Stevenson & Howell, 6½% Cum. Pref.	23 9	22 0	22 3
United Glass Bottle Man., Ord. ..	48 9	49 6	48 0
Veno Drug Co., 8% Pref.	24 0	24 3	23 9
Virol, Ltd., Ord. ..	29 3	27 6	27 6
" " 7% Pref.	24 6	24 4½	22 6
White (A. J.), Ltd., Ord. 10s. ..	16 9	15 6	15 0
White (Timothy) & Taylors, 7½% Pref.	28 7½	27 0	26 3
" " Ord. 5s. ..	22 6	22 10½	21 0
Woodlands, Chemists, Ord. 2s. ..	0 9	0 6	0 6½
Wright, Layman & Umney (1932), 7% Cum. Pref.	22 9	22 9	23 6



# British Association

## Presidential Address

SIR ALBERT SEWARD'S presidential address, given before the British Association meeting at Dundee, is yet another example of that wedding of science to imagination, which is the necessary condition of the flowering of knowledge. Some of the most notable examples of this union have been provided in the past by the great geologists, Lyell and Geikie and Hugh Miller, and it is, therefore, fitting that the President should have taken the subject of his address from the field of palaeobotany, which is closely related to that of geology. On the basis of recent investigations into fossil plant remains at Ardtun Head, on the island of Mull, a reconstruction has been attempted of the flora of the ancient land mass, which occupied the whole area between Scotland and Greenland, before the great earth movements of Tertiary times. It is an investigation that has proved extraordinarily rich in results. But one of the most striking facts that has emerged is the congruence between the flora of this ancient land mass, and that prevailing at the present time on the Pacific coasts, both east and west. For example, the Ginkgo, or Maiden-hair tree, *Ginkgo biloba*, now indigenous to China alone, once flourished on this ancient land; it is the sole survivor of a formerly widespread species, that can be traced back to the Coal Age. The fossil remains of this and other species are very similar to the modern specimens, but in other cases there are differences, significant in themselves, but not such as to prevent correlation with modern species. At Ardtun, fossil remains of oak and plane were found, different from any species now living in Europe or North America. Possibly our own London plane tree, whose origin is not definitely known, may have arisen in that ancient Thulean continent. Taken together, all the discoveries point to the same conclusion. It might be summarised thus, that plant forms show a remarkable persistence and uniformity over long periods of geological time, perhaps exceeding that of animals. The geographical distribution of these forms, however, has been greatly changed by the influence of climatic changes, notably those associated with the Ice Ages, so that species formerly indigenous to what is now Europe have been pushed east and west, into the Pacific area.

Sir Albert Seward concludes his address with a moving plea for a "wider recognition of physical geography and geology as branches of knowledge possessing an inestimable value as a means of bringing young people into close companionship with nature and as a source of refreshment, a stimulus, and an inspiration."

## Geography (Section E)

GEOGRAPHY is a science which has suffered in the past from undefined boundaries; it has tended to develop close relationships with a wide range of sciences, from geology and climatology on the one hand, to history and economics on the other. The study of this science is essential to the serious student of Pharmacognosy. Mr. Stevens' address to Section "E" of the British Association is a further attempt, one of many, to clear up the situation, and to mark out the proper bounds. The scientific approach to the problems raised in the relation of man to his environment has hitherto been largely dominated by the concept of natural geographical regions; these being defined as areas possessing a certain distinctive character in the sum total of their physical and human features. Already in Germany there has arisen a science of *Geopolitik* which is vastly different from the crude political geography of our grandfathers, and the name of Haushofer is associated with a body of teaching that has given strength to the present German expansionist movement. May it not be that geography shall find its true place in the explanation of the phenomena of human distribution, and that its conclusion may be used to refute the falsities of the "Lebensraum" theory? Mr. Stevens' conception of a natural region is one that takes account of variations in the standard of development; in fact, it is concluded that a satisfactory unit can only be traced in regions where the human covering has been long at work, developing its relation to the physical background. It is a fruitful line of thought, and if ever civilization takes in hand a logical programme of development of the earth's resources, for the common benefit of mankind, applied geography will take its place as an essential background to the programme—if the geographers handle it aright. The conclusions of the scientific geographer are sure to have far-reaching effects upon the life of

pharmacists, as of all citizens, and also, more immediately, upon his special branch of knowledge of the production and distribution of crude drugs.

## Botany (Section K)

In his presidential address to Section K (Botany) of the British Association, Professor D. Thoday has selected a subject which, of recent years, has received much attention from plant morphologists. In the historical introduction mention is made of certain dogmas which, though originating in the last century, have but recently come under critical experimental treatment with somewhat surprising results. Adaptation, as suggested by Darwin's concept of "the survival of the fittest," received exaggerated emphasis, with the result that superficial structure was frequently taken to imply some functional perfection on the part of the plant. The most instructive example cited is the so-called xerophyte, erroneous ideas about which were largely due to Schimper, so that xerophytes came to be defined in terms of structure rather than of habitat. Recent work has shown that numerous plants with structure previously said to be adapted to the restriction of water-loss have, in fact, high transpiration rates, and exposed plant organs have high stomatal ratios and not the low ones which were supposed to restrict transpiration. It would seem that the amount of water available during the growth phase of a plant is an important factor in deciding the form growth shall take. The importance of the water supply in the formative phase is also emphasised in connection with the increased vascular development in aerial stems correlated with the amount of foliage borne.

The close relationship between the leaves and stems of herbs is further stressed when it is found that the cambial activity at a particular level is often related to the activity of the leaves above. This is connected with the production of auxins, those remarkable growth-regulating substances which, though of recent discovery, are of general occurrence in plant organs and act as agents in the co-ordination of the different parts of the plant.

In particular, auxins are formed by actively-growing organs such as shoot and root tips, developing buds and expanding leaves; not only do they regulate the elongation of stems and similar organs, but may stimulate and accelerate the production of adventitious roots by cuttings. Their distribution from the site of formation may be responsible for the inequalities of growth associated with tropic curvatures, and for the subjection of lateral buds by the intact terminal bud of a shoot. Auxin has been found to stimulate cambial activity, and it would appear that as it originates in the developing buds it is conveyed backwards to the cambial zone, so causing the localised cambial activity which occurs in the shoot. Many other growth phenomena are undoubtedly connected with auxin production, including fruit formation, nodule development in leguminous plants, gall formation, and callus development following wounding.

# Trade-Mark Applications

(From "The Trade Marks Journal," August 30, 1939)

## SCHEDULE III

"COLIBRITA" and "COLIBRI" on label designs of humming-birds (word "Dralle" disclaimed); for perfumery (48). By Georg Dralle, 16 Praesident Krahn, Hamburg, Germany. 586,723/5/6/30. (Associated.)

## SCHEDULE IV

"HELIOTON"; for photographic papers, etc. (1). By Mimosa A.-G., 21 An der Mimosa 2, Dresden-A, Germany. 605,030.

"LANURITE"; for agricultural and horticultural chemicals (1). By B. Laporte, Ltd., Kingsway, Luton, Beds. 607,359.

"LORELOX"; for hair-waving lotions (3). By Maureen Boun, Ltd., 27 Union Street, Bury. 607,700.

"FIBROLYSIN"; for a medicated preparation for softening scars (5). By E. Merck, Frankfurterstrasse 250, Darmstadt, Germany. B600,355.

Device of dragon, pagoda and unicorn; for pharmaceutical and sanitary substances, etc. (5). By A. S. Watson & Co., Ltd., Alexandra Buildings, Des Voeux Road, Hong Kong. 606,397 (Associated.)

"OLD BETTY PLANT'S" and label design; for herbal cough tablets (5). By Old Betty Plant's, Ltd., Morley Street, Hanley, Stoke-on-Trent. 607,345. (Associated.)

"OSA-DEE"; for medicinal and pharmaceutical preparations (5). By Carter Bros. Otley Road, Shipley, Yorks. 607,664.



## Trade Notes

**DISINFECTANT SHAMPOO.**—Pure Products, Ltd., Colwick, Nr. Nottingham, on another page call attention to the value of their Derbac shampoo for destroying lice and nits.

**YARDLEY & Co., LTD.**, 40 Piccadilly, London, W.1, announce that owing to the difficulties of transport and limitation of factory staff due to national service, they are unable to accept orders of less value than £2 net.

**KEMT.**—Silvikrin Laboratories, Ltd., announce the introduction of a new Kemt refill. This is a standard bottle which can be screwed on to the existing spray. The distributors are Scott & Bowne, Ltd., 10 Stonecutter Street, London, E.C.4.

**CROCUS CORN COMFORT.**—W. Mather, Ltd., Manchester, are making a special offer in connexion with the Crocus corn comfort. These plasters are packed in attractively-decorated tin boxes, and supplies can, if desired, be obtained through the usual wholesale channels.

**IODISED HAIRFOOD.**—J. W. Simpson (Chemist), Ltd., Aldwych House, London, W.C.2, are making a bonus offer in respect of their well-known iodine lockets and socks and also their latest product—Simpson iodised hairfood. These preparations are to be extensively advertised in the near future.

**NAIL SCISSORS.**—Champion & Co., Petre Street, Sheffield, 4, have brought out a new line in nail scissors. At first sight these appear to be the ordinary pattern, but closer examination shows that they are made the reverse of the usual way, thus enabling the right hand nails to be cut with ease. Each pair is enclosed in a display box.

**BAYER PRODUCTS, LTD.**, are maintaining their head office at Africa House, Kingsway, London, W.C.2, from which address all orders will be executed as heretofore. Adequate stocks of all Bayer products are deposited in various parts of the country against an emergency, and there will, consequently, be no need for abnormal buying.

**HALEX TOOTHBRUSHES.**—Halex, Ltd., Hale End, London, E.4, are calling attention elsewhere in this issue to the streamlined case in which their toothbrushes are now being packed and to a bonus offer which is available. The company can also supply new display material for linking up with the advertisement of their toothbrushes.

**SALES MANAGERS.**—A number of local education authorities conduct courses of study with a view to enabling those who wish to become sales managers to pass the examinations of the Incorporated Sales Managers' Association. This organisation does not itself conduct classes, but is an examining body. The syllabus and other information can be obtained from the General Secretary, Department L, 23 Bedford Square, London, W.C.1.

## "C. & D." Price List

The index figure for the cost of drugs underwent no change during the month of August, the figure being 156.2 as against 155.2 for the same month in 1938. This makes the third month in succession in which the figure has not changed. In surgical dressings there is a similar stability, the figure being 138.2. It was 138.3 in August, 1938. The following month the index fell to 138.2, and has remained at that figure for twelve successive months. A few small changes in dispensing and selling prices are recorded below.

Cost		Drugs & Chemicals	Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
126	lb.	Ext. senegæ liquidum	—	—	1 3	0 3
48	lb.	Inf. senegæ conc. . .	—	1 10	0 7	0 1
22	oz.	Menthol . . . . .	—	—	3 3	0 6
48	dr.	Santoninum . . . . .	per	gr.	0 3	7 0
102	lb.	Tr. antiperiodica, B.P.C. P.I. (9)	—	3 8	1 0	0 2
69	lb.	Tr. senegæ . . . . .	—	2 5	0 8	0 2

## Births

Notices for insertion in this column must be properly authenticated.

**FOSTER.**—On August 25, Gretta, the wife of H. W. M. Foster, M.P.S., of a son.

## Marriages

**BROADLEY—HOTHERSALL.**—At Wesley Chapel, Padiham, recently, Herbert Broadley, Ph.C., Burnley, to Greta Hothersall, M.P.S.

**DAVIDSON—DALE.**—At Fulham Parish Church, London, S.W., on September 2, Alexander W. Davidson, B.Sc., A.I.C. (The British Drug Houses, Ltd.), son of Mr. A. Davidson (Plaster & Co., chemists), 172 Old Brompton Road, S.W.5, to Daphne Dale.

**HAMILTON—FARQUHAR.**—At Aberdeen, on August 29, Douglas Hamilton, M.P.S., Fraserburgh, to Stella Farquhar.

**HERD—YOUNGER.**—At St. Andrew's Place Church, Leith, on August 26, William Elder Herd, M.P.S., to Margaret Black.

**MILLAR—BRICE.**—At St. Mary Redcliffe Church, Bristol, on September 2, James Desmond Millar, M.P.S., Wickham Road, Park Langley, Beckenham, to J. G. Brice, Redland, Bristol 6.

**PATCH—CRABTREE.**—At Rochdale, on August 26, Llewelyn Patch, M.P.S., F.B.O.A., Chadderton, to Alice Crabtree, B.Sc.

**SHARP—LAMOND.**—In St. John's Kirk, Perth, on August 23, David Robertson Sharp, M.P.S., to Elizabeth W. A. Lamond.

**WHITE—BENTLEY.**—At Glasgow, on August 29, John Livingstone White, M.P.S., to Mary Bentley.

## Deaths

**ATKINSON.**—At 31 Shirley Avenue, Southampton, on August 26, Mr. Adam Proctor Atkinson. Mr. Atkinson was apprenticed to Duncan, Flockhart & Co., Edinburgh, and afterwards managed the London branch of the firm. In 1917, he joined the staff of Dakin Brothers, Ltd., and afterwards became manager of the London laboratories of Armour & Co., Ltd. Subsequently, he joined the staff of J. C. Eno, Ltd., and remained with them until 1930, in which year he became managing director of Eucryl, Ltd. Mr. Atkinson was also chairman and managing director of W. J. Fiske, Ltd., Southampton. Mr. Atkinson had travelled considerably, visiting among other places Canada, the United States of America and the Far East. He was at one time a member of the Finsbury, London, Borough Council and of the London and Southampton Chambers of Commerce.

**McLOUGHLIN.**—At his residence, Cabra, Killylea, co. Armagh, recently, Mr. William James McLoughlin, father of Mr. S. McLoughlin, M.P.S.N.I., Belfast.

**THOMAS.**—On August 26, Mr. Lewis Edwin Thomas, M.P.S., 117 Wallasey Road, Wallasey. Mr. Thomas, who had been in business in Wallasey since 1907, was a member of the town council, a former president of the local Liberal Association and chairman of the local pharmacists' association. Mr. Thomas is survived by two sons, one a medical practitioner in Birkenhead, the other being Mr. Elwyn Thomas, M.P.S.

## Personalities

**MR. RAYMOND COPE**, M.P.S., M.I.C.O., Leek, has been elected chairman of the Staffordshire Pharmaceutical Committee, and has also been appointed a member of the Insurance Committee.

AMONG the appointments made in connexion with the setting up of a war cabinet are the following: *Lord Privy Seal*, Sir Samuel Hoare; *Home Secretary and Minister of Home Security*, Sir John Anderson; *President of Board of Trade*, Mr. Oliver Stanley; *Minister of Health*, Mr. Walter Elliot; *Minister of Supply*, Mr. Leslie Burgin.





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## Chart of War Gases

"THE CHART OF WAR GASES" (Reprinted from C. & D. 30.IV.38) provides in a concise and clear form a brief description of the chief poison gases; methods of detection; their effects and time action, and an outline of the First Aid methods to be employed to casualties. The chart has been carefully drawn up and is based on information contained in the Home Office A.R.P. Handbooks and the manuals of national First Aid organisations. It should be useful to the pharmacist in the course of his business. Customers interested in the purchase of air raid precautions goods will appreciate a copy for their own use. Chemical manufacturers and firms engaged in all branches of the wholesale drug trade will find the chart of practical use in connexion with arrangements they make for air raid precautions, and it is suggested that copies of the chart should be distributed to their staffs.

Reprints are available at the following prices, postage included:—

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# THE CHEMIST AND DRUGGIST

VOL. CXXXI

September 9, 1939

NO. 3109

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## A State of War

As this country is now in a state of war, it will be a useful and encouraging step to recount the advantages under which we are commencing this contest as compared with our position in 1914. In the first place, we start with a tremendously greater advantage in industrial matters. In 1914, the fine chemical and dyestuffs industries had almost completely passed into the hands of German concerns; to-day, we are able to produce within our own factories these commodities at least equal in quality to those which were formerly issued in enemy countries. In addition to that, in respect of heavy chemicals, our industry has made tremendous progress and is now in full production for the manufacture of sulphuric acid, of nitric acid, of oil from coal on a scale which promises to meet every demand likely to be made upon the producers. There will be little occasion for improvisation of factories for the production of these substances, such as we saw in the period of 1914 to 1918. In 1914, we were almost entirely dependent upon Germany for scientific and optical glass, and we recall the products that were issued from British factories in their early attempts to supply the lack of glass of these kinds. Brittle, not always very transparent and rarely able to serve the purpose for which it was designed, it could in no way be regarded as equal to the products of the German works. To-day, on the other hand, British manufacturers are producing glass of different qualities for optical, scientific and technical purposes equal at least in every respect to those which have been issued from Germany. And so we could go on recounting examples time after time from British industry; by their skill, courage and foresight, British manufacturers have established for themselves a position which will be a source of impressive strength in the conflict in which we are engaged.

With regard to the measures taken for the defence of the realm, we recall the *laissez-faire* policy of the Government in the early months of the last war, and how order after

order was promulgated dealing with this or that emergency. Probably nothing served to upset and disquiet people so much as this constant stream of Orders in Council often so contradictory. To-day, on the other hand, we start the war under the guidance of a Government which, having learnt from the bitter experiences of 1914-18, has assumed wide powers under the Emergency Powers (Defence) Act. It can be safely assumed that under that Act there will very quickly be issued a series of Orders in Council dealing with every phase of our national life which demands any sort of control, and we may also expect that that control having been established from the outset, we shall be able to adjust our lives to the restrictions thereby imposed, and within the same limited orbit so circumscribed, we shall be able to go on our lawful occasions unhampered. In matters of personal liberty, profiteering, a source of such grave discontent in the last war, is checked, and by measures such as this the Government is in a position, and the nation will give it every support, to press the war to a successful conclusion unhampered by forces of discontent, uneasiness and unrest within our own borders. We do not know, of course, what surprises the war may bring forth: no one ever anticipated in 1914 that gas warfare would become the terrible weapon it did, and it may be that the present struggle will reveal the use of forms of warfare which at the moment we can scarcely conceive. Of this we can be certain: the skill and adaptability of British scientists are such that they will enable us to triumph into whatever form of enterprise a resourceful enemy may drive us. We have been too ready in the past to under-rate our own achievements and too ready to give too much credit to outsiders. This habit of self-depreciation is one of which we must rid ourselves, and we venture to say, if we calmly survey the achievements that have already been won in our own borders, we shall find that there is little ground for this habit of mind.

Pharmacists, in whatever branch of their profession they are practising, will continue to give that efficient and devoted service to the community on which they justly pride themselves, and will be found ready to undertake such additional tasks and responsibilities as the State may require and for which their training fits them.

With regard to THE CHEMIST AND DRUGGIST, we shall continue to serve our subscribers and friends to the utmost of our ability. We are aware that we shall be sharing with them many difficulties and suffer many restrictions, but this is a situation in which British pluck, hearty co-operation and a steadfast faith in the ultimate issue will enable us to surmount all those difficulties.

## Key Industries Policy Vindicated

As a direct outcome of the last war and the consequent shortage of chemical products essential to the safety of the nation and its fighting forces, a Committee was set up to report on the best method of ensuring that the country should not be lacking ample supplies of these vital products in the event of a national emergency arising in the future. Following on their investigations, the Committee reported that, in their opinion, it was essential that establishment of production of certain classes of products was vital to the welfare of the nation. The matter was then considered by Parliament and although there was a good deal of opposition, a Bill was ultimately submitted to the House and, in



due course, approved. The title of this legislation was The Safeguarding of Industries Act, 1921, Part I, and it dealt entirely with "key" products such as some thousands of "fine" chemicals, optical glass and instruments, scientific glassware and instruments, certain compounds, lamp blown ware, carbons, tungsten, etc. In order to encourage the production of this wide range of products in this country, it was ordered that an import duty of from 33½ per cent. *ad valorem* upwards should be imposed on all foreign imports of these classes of goods. The duties were imposed for ten years, renewed for a further period, and finally made permanent.

At the time this first experiment in protecting home industries was made there were some who doubted whether it would be successful. The first few years did not bring much in the way of tangible result, but gradually the home industry began to develop and the range and quality of the products was continually on the increase. Many of the chemical products, formerly either entirely or largely imported, were now being manufactured here. The home manufacturers became strong enough not only to command the home market but to compete successfully in overseas markets on quality as well as price with German manufacturers. At the end of the first ten years of the duties Parliament was completely satisfied that the experiment had been well worth while, but that the manufacturers needed further time to consolidate their position. In our Annual Special Issue of June 30, 1934 (pp. 774 to 780), we reviewed the results and position to date of the fine chemical industry. It was abundantly clear that after some fifteen years the fine chemical and allied products industry had become of prime national importance. From that time onwards the industry has consistently increased and, in this time of great national trial, it can be said that there will be no shortage of supplies for the armed forces or for home use of pharmaceutical chemicals, including anaesthetics, antiseptics, alkaloids and synthetic remedies and biological and glandular preparations. Industry is to-day able to draw supplies of a wide range of technical chemicals, such as the solvents and plasticisers now used in many important production processes. Rare earths for the gas and electrical trades are small but not unimportant products now available. Analytical reagents and research chemicals for medical work need no longer be imported. A section that has made great strides is the production of photographic chemicals. Up to 1914 practically all requirements had to be met from foreign sources; to-day the range of these products available is adequate for all our needs. Finally, we are now producing adequate supplies of aromatic synthetics and isolates.

The establishment of the industry and its consolidation to its present state is a source of great national strength. Its achievement has not been simply a question of additional plant in order to increase output of a few everyday articles; it has demanded careful planning, unending experiment, patient research and the outlay of considerable capital. The commercial interests representing the industry and their scientific and technical staffs have certainly justified the confidence placed in them. To-day, the industry is in a position to provide a constant output of a splendid range of fine chemicals of unsurpassed quality which falls short in no respects from making the country nationally and industrially self-reliant. The policy of safeguarding "key" industries has been wholly justified.

## Sulphanilamides in Erysipelas

In an article describing the value of the sulphanilamide drugs on erysipelas, Anderson ("Lancet," July 29, p. 257) gives the following table showing the results of treatment of 824 cases of the disease:—

	Cases treated by control methods	Cases treated with sulphanilamide or related compound
Percentage showing no spread after 24 hours in hospital . . . . .	57.2	86.2
Percentage showing cessation of primary pyrexia within 48 hours of admission . . . . .	50.3	75.5
Case-mortality per cent. . . . .	5.0	2.8

The author goes on to say that adequate chemotherapy cures the disease in practically all cases within three or four days. The preparations which have been employed most extensively are prontosil rubrum, rubiazol and sulphanilamide. Children tolerate the drugs exceedingly well, and relatively large doses can be given in infancy, particularly in the early stages of treatment. The drug should be administered orally every four hours so that an effective concentration in the blood can be maintained. The author states that no therapeutic advantage is obtained over the oral route by parenteral treatment. A table of suggested dosage of sulphanilamide compounds in erysipelas is set out, and if the suggestion is adopted the lesion will cease to spread within forty-eight hours and the temperature will drop to normal in most cases within three to four days from the commencement of treatment. If this does not happen, it is suggested that diagnosis be reviewed. Full dosage should be given until the temperature returns to normal, after which a dose of 0.5 to 1 gm. of the drug should be given three times a day for from ten to fourteen days. If this course is followed, recurrence of the disease is unusual.

## New Books

*Text-book of Medical Treatment.* Edited by D. M. Dunlop, B.A., M.D., F.R.C.P.E., L. S. P. Davidson, B.A., M.D., F.R.C.P., M.R.C.P., and J. W. McNee, D.S.O., D.Sc., M.D., F.R.C.P. 8½ in. by 5½ in. Pp. 1,127. 25s. E. and S. Livingstone, Edinburgh. [One of the first things noticed by a pharmacist in a book such as this is the prescriptions given in the text. This tempts one to ask why a full stop is placed after "opii" in the prescription given on page 41 and again on page 72, while there is no full stop after the contraction "ipecac" on the same page. At page 131 the contraction "chlorid" is not punctuated, while in the same prescription the word "anisi" is. "Balsam Peru" should, of course, be written "Balsam. Peruv."; the words "morphine" and "atropine" are not Latin. "Acetatis" is contracted "acet." and "acetat.", and on page 997 there is a prescription written in English, which seems anomalous when all the others are given in Latin. These may appear to be minor matters, but they call for correction in the next edition. As regards the text itself there is only praise to give. Each subject has been accurately dealt with, and the very latest treatment considered. The writer on the treatment of venereal diseases states that few patients are intolerant of iodides. This is a somewhat sweeping assertion to make, but he may be thinking merely of those who are suffering from syphilis. As regards the sulphanilamide treatment of gonorrhœa it is said that this remedy is curative but requires a high dosage. It proves effective in about 75 per cent. of cases and the incidence of toxic effects is high. Within our knowledge this remedy stops the discharge, but does not necessarily cure the patient, who may still prove infectious to others. The section on diseases of the blood is undoubtedly one of the best in the whole volume. The one dealing with industrial diseases is excellent, but somewhat short. We are also very favourably impressed with the section on diseases of the heart and circulation. The management of the ambulant cardiac patient is very well described. Hurst's *régime* of treatment in peptic ulcer is given by the writer on diseases of the alimentary canal, and a series of diets for intestinal diseases is also included. As Professor A. J. Clark says in his preface, this volume provides a basis for the rational and critical judgment of modern therapeutic agents. Taken as a whole it is one of great accuracy and reliability.]



# Food and Drugs Act, 1938

AS was indicated in an article published in THE CHEMIST AND DRUGGIST shortly after the passing of the above Act in August 1938, the operation of this new consolidated statute is postponed until October 1, 1939. It is unfortunate from the point of view of the pharmacist (or for that matter of the grocer or any other distributor of drugs and foods) that the subject of adulteration should now have been inextricably mixed up with a miscellany of sanitary subjects which come within the purview of the medical officer of health and his department in the office of the local authority. So far as concerns any amendment of the Adulteration Act of 1928 and codification of the remaining statutes relating to the sale of food and drugs, little was necessary and that has been effected: and it will be surprising if magistrates and officials concerned in administering the food and drug sections of the 1938 Act do not find the task more troublesome than it would have been if the subject of "adulteration" had been left in one Act whilst the sale of bad meat, the control of markets, the supervision of slaughterhouses and knackers' yards and other purely "public health" matters had been embodied in a statute of their own.

## Definition of Drug

Any practising pharmacist who happens to have in his library a book on the 1928 Act will find it a comparatively easy matter to make therein a few material notes upon the sections which interest him. It can be said at once that there are no decisions of any importance by the Courts which have been cancelled out by any provision of this new Act. The sections have been rearranged and in some cases their language has been simplified, but all the old provisions relating to sale "to the prejudice of the purchaser," the taking of samples and division into three parts, the protection afforded the retailer by warranties, the sale of compounded articles, and the permissible use of preservatives remain unaffected—except that in regard to the sale of an article of "food" it is now laid down that where a definite composition is prescribed by regulations published under the Act the purchaser is to be deemed (unless the contrary is shown) to have demanded an article in accordance with the regulations. There is no indication of intention to standardise drugs: and "drug" is only defined as "including medicine for internal or external use." As regards the main features of adulteration law it may be noted for convenience that the "prejudice" question, which under the old Act was dealt with in Section 2, is now embodied in Section 3. The legal position in regard to that remains unchanged except that referred to above touching food and the variation of labelling in Section 5 below. Section 4 collects the defences which may be raised effectively to a charge of selling to the prejudice of the purchaser. These can be summarised as follows—the section itself being too verbose to print verbatim here:—

- (1) *Where any addition has been made to the food or drug:—*
  - (a) That the substance added was not injurious to health or to the quality of the drug.
  - (b) Not made fraudulently to lower quality.
  - (c) Required to produce an article in a state fit for carriage or consumption.
  - (d) Is labelled in conformity with Sections 4 and 5.
- (2) *Where any constituent has been abstracted:—*
  - (a) Not injurious and fraudulent as (a) and (b) above.
  - (b) Satisfying (c) and (d) above.
- (3) If subject of a patent in force, according to specification.
- (4) Where containing extraneous matter—unavoidable.
- (5) A proprietary article supplied to request.

There is a proviso to all the above that these defences shall not be available where any standard laid down by regulation is violated.

## Labelling and Advertisements

Section 5 is important. It deals with labelling. It re-embodies the provisions of Section 4 of the old Act and provides that the defences of the new Section 4 set out above will not be met by labelling unless the following requirements are satisfied:—

- (a) the label must state explicitly what substance has been added to, or what constituent has been abstracted from, the food or drug; and

- (b) it must be of adequate size, and have the notice of addition or abstraction distinctly and legibly printed and conspicuously visible.

Then it goes on to say that these requirements will only as respects a mixture be deemed to be satisfied by a label which has been continuously in use without any material variation since January 1, 1893, and bears a statement to the effect that the article in question is mixed, or by a label which has been continuously in use without any material variation since October 1, 1932, and bears such a statement distinctly and legibly printed and unobscured by other matter on the label. With regard to this matter of addition or abstraction it may be pointed out that whilst the old Act began by setting out in its first section restrictions forbidding any person to "mix colour stain or powder" articles of food to make it injurious, or any drug so as to affect its potency, the new Act simplifies the language by dealing with addition as set out under (1) and with abstraction as under (2) above—leaving out all varieties of addition such as colouring and staining and simply requiring full disclosure and non-injury—a very real improvement. With regard to full disclosure and no deceiving of the public Section 6 of the new Act is to be noted. It deals with labels and advertisements and it reads thus:—

6. (1) A person who gives with any food or drug sold by him a label, whether attached to or printed on the wrapper or container or not, which falsely describes that food or drug, or is otherwise calculated to mislead as to its nature, substance or quality, shall be guilty of an offence, unless he proves that he did not know, and could not with reasonable diligence have ascertained that the label was of such a character as aforesaid:

(2) A person who publishes, or is a party to the publication of, an advertisement (not being such a label so given by him as aforesaid) which falsely describes any food or drug, or is otherwise calculated to mislead as to its nature, substance or quality, shall be guilty of an offence.

This subsection (2) is entirely new and places a serious responsibility upon all proprietors of foodstuffs or drugs who advertise their merits by circular or otherwise. There is however this proviso, that it shall be a defence for the defendant to prove either: (a) that he did not know, and could not with reasonable diligence have ascertained, that the advertisement was of such a character as aforesaid; or (b) that, being a person whose business it is to publish or arrange for the publication of, advertisements, he received the advertisement for publication in the ordinary course of business. In any such proceedings against the manufacturer, producer or importer of the food or drug, it shall rest on the defendant to prove that he did not publish, and was not a party to the publication of, the advertisement. It would seem probable that exaggerated claims in advertisements may lead to trouble under this section.

As regards the administration of the new Act it is necessary now to turn to Part VI which begins with Section 64 and deals with analysts, sampling, and all the machinery for dealing with prosecutions, appeals, etc., not merely in regard to adulteration but also covering all the miscellaneous statutes and provisions of no concern to the pharmacist. To sum up the position generally as to adulteration it may be said that the old procedure obtains with very slight alterations. Some changes in penalties are to be noted: these have obviously been made to co-ordinate the penalties under all the statutes now merged into this one Act. Section 79 sets out the maximum penalties for all offences against the Act "unless a special penalty is otherwise provided. These "general" penalties are not to exceed £20 for a first or £100 for a subsequent offence plus, in the latter case, a term of three months' imprisonment. The "special" maximum penalties relevant to the sale of drugs are: *Under Section 6* (false description by label or otherwise) £50 or imprisonment (or both) on a first conviction; *under Section 78* (obstructing a sampling officer or refusing to sell what is demanded), £5. If a previous conviction within 12 months a fine of £20 or a month's imprisonment without the option of a fine. The maximum "general" penalties under the old Act (i.e. apart from special penalties provided for particular offences) were £20 for a first, £50 for a second, and £100 (or three months' imprisonment as an alternative) for a third or subsequent offence. The old maximum penalty for selling a drug adulterated so as to affect its potency was £50 for a first offence. This now is reduced to £20 as a "general" penalty: similarly the old penalty for refusing to sell was £10—now it is £5. On the balance however it will be seen that the penalties for infringement of the Act are more severe.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, September 6

SINCE the declaration of hostilities a good many of the leading commodity markets and most of the produce exchanges have been closed, but it is understood they are likely to be re-opened in the course of the next few days. London produce brokers' offices are also closed for the time being. For these reasons there are no quotations for a large number of the leading commodities. London dealers continue to do business and report a steady flow of orders. It is satisfactory to note that there is still no sharp or general advance in prices now being quoted, and it seems that the policy generally adopted is to supply consumers only at reasonable prices and to decline all business of a

*Manufacturers, merchants and importers are invited to send notifications of all price changes, in the commodities they handle, to the Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, on or before Tuesday morning in each week.*

speculative character. It will probably take a week or two before the markets adjust themselves to the new conditions. Such matters as increased freight rates, war insurance and particularly the fluctuations in foreign currency exchanges on sterling make it impracticable to define prices except from hour to hour. Nevertheless there is a steady and confident tone throughout and it is already obvious that the trade is determined there shall be no wild gambling and profiteering this time. Prices of spot stocks of essential oils are naturally unsettled at the moment, as most of these products are directly affected by the rates of foreign exchanges. Dealers are not pressing for business, and are limiting their sales to moderate quantities and to consumers only.

Business in pharmaceutical chemicals continues under almost normal conditions and there is every reason to believe that the manufacturers are, and will continue to be, in a position to meet the full requirements both for the Forces and for home consumption. Further, any dislocation or stoppage of supplies from the Continent or America is not likely to cause inconvenience, as for some years past such imports have been chiefly composed of classes of products produced in this country. The compiling of a market report under prevailing conditions is a difficult matter, but it is hoped that the values indicated will be of assistance to consumers.

## Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	August 30	September 6
Amsterdam ..	Fls. to £	12:107	8:10	7:60
Berlin ..	Mks. to £	20:43	11:0	—
Brussels ..	Belgas to £	nominal	25:5	23:83
Copenhagen ..	Kr. to £	18:159	22½	22 (Sep. 2)
Lisbon ..	Esc. to £	110	110	109½ (Sep. 2)
Madrid ..	Ptas to £	25:24½	nominal	42½ (Sep. 2)
Milan ..	Lire to £	92:46	82½	nominal
Montreal ..	Dols. to £	4:86½	4:40	4:49
New York ..	Dols. to £	nominal	4:32½	4:04
Oslo ..	Kr. to £	18:159	19:0	17:78
Paris ..	Fr. to £	124:21	174½	174½
Prague ..	Kr. to £	164:25	nominal	—
Stockholm ..	Kr. to £	18:150	18:0	16:96
Warsaw ..	Zloty to £	43:38	22 nominal	nominal
Zurich ..	Frs. to £	22:2115	19½	18:02

Bank rate 4 per cent.

## Pharmaceutical Chemicals, etc.

THE trade in pharmaceutical chemicals is being carried on without serious hindrance, and, beyond the few important changes recorded last week and this, prices are keeping approximately to their former levels. There is certainly no shortage of the general articles and, according to reports, fresh supplies from home makers are not likely to be much interrupted. We give the latest quotations available. Any late adjustments of sales prices will be found in the Coloured Supplement.

**ACETANILIDE.**—Steady. B.P. crystals and powder quoted at 1s. 9d. to 2s. per lb., as to quantity.

**AMIDOPYRINE.**—Crystals, two cwt., 9s. 4d.; one cwt., 9s. 8d.; less than one cwt., 10s. per lb., with powder 2½d. per lb. extra.

**AMMONIUM ICHTHIOSULPHONATE.**—Scale of prices steady; one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10d., in 8-oz. tins; and 2s. 1d. per lb., in 4-oz. tins.

**BARBITONE.**—Inquiry continues to be on a small scale, with prices quoted keenly: Spot, two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. per lb.

**BENZOIC ACID (B.P.).**—Quoted steadily: Five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. to 2s. 2d. per lb., ex store, as to quantity.

**BISMUTH SALTS.**—The following revised prices and terms apply to the sale of bismuth salts, from August 29, 1939, until again revised.

Prices per lb.	Net Monthly Account					Net 14 days
	Under 4 lb.	4 lb. and under 8 lb.	8 lb. and under 28 lb.	28 lb. and under 1 cwt.	Not less than 1 cwt.	
Bismuth Carbonate ..	s. d. 8 0	s. d. 7 6	s. d. 6 9	s. d. 6 3	s. d. 6 0	
" Citrate ..	11 10	11 4	10 7	10 1	9 10	
" Nitrate Cryst. ..	6 10	6 4	5 7	5 1	4 10	
" Oxide ..	12 9	12 3	11 6	11 0	10 9	
" Salicylate ..	10 0	9 6	8 9	8 3	8 0	
" Subchloride ..	12 6	12 0	11 3	10 9	10 6	
" Subgallate ..	9 8	9 2	8 5	7 11	7 8	
" Subnitrate ..	7 10	7 4	6 7	6 1	5 10	

Contracts are booked for 1 cwt. and upwards for delivery over three months, and are subject to a rise and fall clause. A rebate of 3d. per lb. is allowed on sales of not less than 2 cwt. salts (assorted if required), provided delivery is completed within three months. All deliveries ex contract are sold on net cash 14 days' terms.

**BORIC ACID (B.P.).**—Makers' prices continue steady; granulated, £36 10s.; crystals, £37 10s.; powder, £38 10s.; extra fine powder, £40 10s. per ton, in 1-cwt. bags, carriage paid to buyer's works on 1-ton minimum. Commercial quality, £8 per ton cheaper for all descriptions.

**BROMIDES.**—Makers' scales of prices unchanged: POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per 1-lb. net. Resale clause applies, 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6d.; one cwt., 1s. 7d. per lb., f.o.b.

**CAFFEINE (PURE).**—Dutch florin prices have been withdrawn and quotations are now in American dollars, ranging from 2 dollars 10 cents to 2 dollars 31 cents, per lb., as to quantity. Prices for other salts also quoted in dollars at proportionate prices. These quotations are liable to be withdrawn without notice.

**CHLORAL HYDRATE.**—Makers' prices are unchanged; duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars one penny per lb. extra.

**CITRIC ACID (B.P. CRYSTALS).**—Market is steady: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

**CREAM OF TARTAR.**—Market is steady: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

**CREOSOTE.**—Bulk quantities, in 25-kilo demijohns, 1s. 6d.; small parcels, 1s. 7½d. up to 2s. per lb., ex store.

**EPHEDRINE.**—Firm. Hydrochloride, B.P., 5s. 6d. to 6s. per oz. in minimum 1,000-oz. lots; small quantities, from 7s. Pure alkali is quoted from 7s. 3d. to 7s. 9d. per oz., as to quantity.

**GALLIC ACID.**—Steady: spot, one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

**IODIDES.**—Makers' prices for salts unchanged. POTASSIUM, B.P.—Not less than 1 cwt., 5s. 3d.; not less than 28 lb., 5s. 6d.; not less than 14 lb., 5s. 9d.; not less than 7 lb., 6s. 3d.; not less than 4 lb., 6s. 9d.; smaller quantities, 7s. 3d. per lb. SODIUM, B.P., not less than 7 lb., 7s. 4d.; not less than 4 lb., 8s.; smaller quantities, 8s. 10d. per lb. IODINE, B.P., RESUBLIMED.—Not less than 1 cwt., 5s. 9d.; not less than 28 lb., 6s.; not less than 14 lb., 6s. 3d.; not less than 7 lb., 6s. 9d.; not less than 4 lb., 7s. 5d.; smaller quantities, 8s. 2d. per lb. IODOFORM, B.P., CRYST., PRECIP. OR POWDER.—Not less than 28 lb., 8s. 3d.; not less than 14 lb., 8s. 7d.; not less than 7 lb., 9s. 3d.; not less than 4 lb., 10s. 1d.; smaller quantities, 10s. 11d. per lb. Contracts for 1 cwt. and upwards (assorted if required), with fall clause for delivery as required during four months, 28-lb. tins and 1-cwt. cases free. All bottles are charged, but will be credited in full if returned carriage paid, in good condition, within three months. Carriage



paid on any quantity. It is a condition of sale that buyers undertake not to resell any quantity of the above products at prices below the scale for any such quantity current at the time the sale is made.

**MERCURIALS.**—Makers' prices continue steady at the revised scale recently announced.

	Less than 28 lb.	Not less than 28 lb.	Not less than 112 lb.
	per lb. s. d.	per lb. s. d.	per lb. s. d.
Ammoniated Lump B.P. (White Precip.) ..	6 10	6 6	6 5
Ammoniated Powder B.P. ..	7 0	6 8	6 7
Bichloride Lump B.P. (Corros. Sub.) ..	6 1	5 9	5 8
Bichloride Powder B.P. (Corros. Sub.) ..	5 6	5 2	5 1
Bichloride Powder B.P. ..	5 9	5 5	5 4
Subchloride B.P. (Calomel) ..	6 7	6 3	6 2
Red Oxide Cryst. B.P.C. (Red Precip.) ..	7 11	7 7	7 6
Red Oxide Levig. B.P.C. ..	7 5	7 1	7 0
Yellow Oxide B.P. ..	7 3	6 11	6 10
Persulphate White ..	7 0	6 8	6 7
Sulphide Black (Hyd. Sulph. cum Sulph. 50%)	6 11	6 7	6 6

Net prices. Strictly without engagement. On usual terms. Special prices for larger quantities and for contracts.

**METHYLATED SPIRITS.**—Prices for all grades of industrial and pyridinised spirits are unchanged.

In One Delivery	Industrial Spirits				
	61 o.p.	64 o.p.	66 o.p.	68 o.p.	74 o.p.
500 galls. and upwards	1s. 3d.	1s. 4d.	1s. 5d.	1s. 6d.	1s. 8d.
100 " " under 500	1s. 5d.	1s. 6d.	1s. 7d.	1s. 8d.	1s. 10d.
30 " " " 100	1s. 7d.	1s. 8d.	1s. 9d.	1s. 10d.	2s. 0d.
10 " " " 30	1s. 9d.	1s. 10d.	1s. 11d.	2s. 0d.	2s. 2d.

In One Delivery	Pyridinised		Mineralised (Coloured Violet)	
	61 o.p.	64 o.p.	61 o.p.	64 o.p.
500 galls. and upwards	1s. 5d.	1s. 6d.	2s. 5d.	2s. 6d.
100 " " under 500	1s. 7d.	1s. 8d.	2s. 7d.	2s. 8d.
30 " " " 100	1s. 9d.	1s. 10d.	2s. 9d.	2s. 10d.
10 " " " 30	1s. 11d.	2s. 0d.	2s. 11d.	2s. 12d.

Industrial methylated spirits (toilet quality) 2d. per gallon above the prices quoted for industrial methylated spirits. Delivered free. Carriage also paid on returned empty packages. Terms, cash in one month, less 2½ per cent.

**METHYL SALICYLATE.**—Makers' prices steady; spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

**METHYL SULPHONAL.**—Dealers' prices firm; two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

**PHENACETIN.**—Makers' prices unchanged; crystals or powder, bulk quantities, from 2s. 6d.; smaller parcels from 2s. 7d. to 3s. per lb., as to quantity.

**PHENAZONE.**—Crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less up to 7s. 6d. per lb., with powder 2½d. per lb. extra.

**PHENOLPHTHALEIN.**—Market is steady; two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels up to 3s. 6d. per lb.

**PHENYLETHYLBARBITURIC ACID.**—Dealers' prices in 2-lb. bottles are steady at about 17s. to 18s. per lb., as to quantity.

**PHOTOGRAPHIC CHEMICALS.**—Home makers' prices are as follows: **AMIDOL.**—28 lb., 8s.; 14 lb., 8s. 9d. net; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles, less 2½ per cent. monthly terms. **CHLOROQUINOL.**—1-lb. bottles, 21s. per lb. **GLYCIN.**—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. **HYDROQUINONE.**—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d. in 1-lb. bottles, 6s. 6d. per lb. **METOL.**—28 lb., 9s. 6d.; 14 lb., 9s. 9d. net; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb. bottles, 12s. 6d. per lb., bottles free, less 2½ per cent. monthly terms. **ALUM (PHOTOGRAPHIC QUALITY).**—1 cwt., 21s. per cwt.; 28 lb. for 6s. **GOLD CHLORIDE.**—15-grain tubes, 45s. per doz. **MAGNESIUM POWDER.**—10s. per lb. **PARAMIDOPHENOL HYDROCHLOR.**—8s. 6d. per lb., bottles free. **POTASSIUM FERRICYANIDE.**—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. **POTASSIUM METABISULPHITE.**—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. **PYROGALLIC ACID, CRYST.**—One cwt., 7s. 9d.; 56 lb., 8s.; 28 lb., 8s. 3d. net; 14 lb., 9s. 9d.; less than 7 lb., 10s. 3d. per lb., less 2½ per cent., monthly account. Resale in small packages: 1-oz. bottles, 2s.; 4-oz., 5s. 3d.; 8-oz., 9s.; 16-oz. bottles, 16s. 1½d. each, less 3½ per cent. to the trade. **RESUBLIMED.**—1-oz. bottles, 2s. 6d.; 4-oz., 6s. 6d.; 8-oz., 11s. 3d.; 16-oz. bottles, 20s. 3d. each, less 3½ per cent. to the trade. **SODIUM CARBONATE, RECRYST.**—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM HYPOSULPHITE, CUBES, CRYST.**—5 cwt., 17s.;

1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. **SODIUM SULPHIDE (PURE).**—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. **SODIUM SULPHITE, RECRYST.**—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

**POTASSIUM PERMANGANATE (B.P.).**—British makers' scale of prices for home trade is as follows: Not less than one cwt., 10½d.; not less than three cwt., 10d., in drums; not less than 5 cwt., 9½d. in 1-cwt. drums and 9½d. in 5-cwt. drums, net, delivered buyer's station, drums free. Technical or commercial quality, one cwt., 96s.; three cwt., 91s. 6d.; five cwt., 89s.; one ton, 86s. 6d. per cwt., in 1-cwt. drums.

**ROCHELLE SALTS.**—Makers' prices are nominally unchanged.

	Pulv. Sod. Pot. Tart. B.P.	Pulv. Seidlitz	Double Seidlitz
	Per cwt. s. d.	Per cwt. s. d.	Per cwt. s. d.
Under 1 cwt. ..	85 0	68 0	76 5
Under 5 cwt. ..	82 6	66 3	73 3
Over 5 cwt. in one delivery ..	80 0	64 3	71 0

Soda pot. tart. cryst. at 2s. 6d. per cwt. extra to powder, net, 14 days. Special prices for quantities. Contracts accepted subject to a rise and fall clause.

**STRYCHNINE SALTS.**—Makers' scales of prices for these products are nominally unchanged. Home trade and Empire (excluding Canada) prices are as follows:—

	Under 250 oz.	250 oz. and under 500 oz.
	Per oz. s. d.	Per oz. s. d.
Pure Crystals ..	1 4	1 3½
Pure Precip. ..	1 4	1 3½
Acetate ..	1 10½	1 10
Arsenate ..	1 9½	1 9
Arsenite ..	1 10½	1 10
Bisulphate ..	0 10½	0 10
Hydrochloride ..	1 2	1 1½
Hypophosphite ..	3 4½	3 4
Nitrate Crystals ..	1 2	1 1½
Nitrate Powder ..	1 2	1 1½
Nitrate Powder No. 2 ..	0 10½	0 10½
Phosphate ..	2 1½	2 1
Sulphate Neut. Cryst. ..	1 0½	1 0
Sulphate Neut. Powder ..	1 0½	1 0
Sulphate Neut. Powder No. 2 ..	0 10½	0 10½

Terms net 30 days. 25-oz. tins free. Smaller packages charged extra, 1-oz. bottles, 2d. extra. Delivered home market or c.i.f. export. For export; discount 1 per cent. cash in 10 days. Cases free. Buyers held covered against price reductions for 10 days after arrival of steamer at port of destination. Contracts can be booked for 250 oz. upwards with fall clause, delivery over six months.

**TERPINEOL.**—Now quoted as follows: bulk quantities, 1s. 6d. up to 2s. per lb., for small parcels.

**THEOBROMINE (PURE).**—Dutch florin prices have been withdrawn. Quotations are now in American dollars and range from 1 dollar 85 cents up to 2 dollars 05 cents per lb., as to quantity. Other salts at proportionate prices. Quotations liable to be withdrawn without notice.

### Crude Drugs, etc.

**LONDON Produce Brokers' offices** are closed, and there are no quotations for many of the leading products. Dealers are doing a fair amount of miscellaneous business in supplying consumers with spot goods. It is likely that conditions will be much more settled in the course of the next two or three weeks.

**AGAR.**—Fair spot demand. Holders have not increased their prices to any extent. No shipment offers and no reply to orders cabled out: spot, Kobe 1, 5s. 4d. to 5s. 6d.; Kobe 2, 5s. to 5s. 3d.; Yokohama No. 1, 5s. 2d. per lb., ex store.

**ALOES.**—Firm: spot, Curaçao, 225s. to 230s., as to quality. Cape, about 50s., as to quality. No shipment quotations.

**ANTIMONY.**—No market. Nominal values. Chinese crude, spot, £50. English regulus, £70 to £71 per ton.

**BALSAMS.**—Firm: *Tolu*, 1s. 10½d. to 2s.; *Canada*, 3s. to 3s. 1d.; *Copaiba*, 1s. 10½d.; *Peru*, 4s. per lb., ex store.

**BENZOL.**—There are spot sellers of Sumatra from 75s. to 95. per cwt., ex store, as to quality.

**BISMUTH METAL.**—Quoted only in American dollars at 1 dollar 0.5 cents per lb., ex store.

**BUCHU.**—Spot supplies are quoted from about 1s. 6d. to 1s. 8d. per lb., for fair to good leaves. No shipment offers.

**CAMPHOR.**—The stoppage of supplies of the German synthetic materials has resulted in a good demand for English, Chinese, and



Japanese. Holders have not so far increased their spot prices for small quantities to consumers. Natural spot, tablets, 2s. 5½d.; powder, 2s. 2½d.; slabs, 2s. 2½d. per lb., ex store; shipment, nominal, no offers. English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ¼ oz., and ⅓ oz., 3s. 6d. Japanese monopoly BB brand, £7 10s. per 100 lb.

CASCARA SAGRADA.—There are no offers for shipment of new crop. An indication of the spot market is 1938 peel offered at about 60s. per cwt., duty paid, ex store.

COLOCYNTH PULP.—Holders of spot stocks, which originally cost about 1s. 11d. c.i.f., and which was selling down to 1s. per lb., landed, have temporarily withdrawn their prices.

CLOVES.—No market, values nominal. Details of London stocks and arrivals not available.

COCONUT (DESICCATED).—No market, values nominal.

DIGITALIS LEAVES.—Spot holders value bulk quantities at about 85s. per cwt. Small parcels, up to 90s. per cwt., ex store.

ERGOT.—It is reported that a few bags of Polish have sold at 6s. per lb., duty paid. An offer for shipment from Spain in American dollars works out at 10s. per lb., c.i.f.

GINGER.—West African on spot nominal at about 19s. to 20s. per cwt., ex store.

GUM ACACIA.—Spot holders are conserving stocks but not increasing prices to any extent. Kordofan cleaned sorts reported sold up to 55s. per cwt., ex store.

HENBANE.—Dealers are quoting spot supplies of leaves at about 65s. to 67s. 6d. per cwt., ex store.

HONEY.—Firm: Jamaican, from 33s. for dark manufacturing to 47s. 6d. per cwt. for pale set. Canadian, 45s. to 47s. 6d. Californian white, clover, 52s. 6d. to 55s., duty paid. Small quantities of all varieties at higher rates.

HYDRASTIS.—No shipment offers from the source. U.S.P. quality on spot would be worth about 16s. 6d. to 17s. per lb., ex store, for small parcels.

LIGUORICE ROOT.—Natural of good quality is quoted at 13s. 6d. per cwt., ex store.

MANNA.—Finest selected flake, in 1-lb. tins, quoted at 3s. 9d. to 4s. per lb., ex store.

MENTHOL.—No shipment market business. Spot, K/S brands, 12s. 10d. to 13s. per lb., as to seller. Chinese, spot, 11s. 6d. to 11s. 9d. per lb., ex store.

MERCURY.—The distributors of Spanish-Italian metal advise us previous prices have been withdrawn and no quotations are available for the present.

PEPPER.—No market. Values nominally unchanged.

PIMENTO.—No market. Values on spot nominal at about 8½d. to 9d. per lb., ex store.

RHUBARB.—Fair demand for Rough Round, and sold up to 2s. 9d. Now quoted, 2s. 10d. to 3s. Shensi pickings, 4s. 9d. to 5s. per lb., ex store. No shipment offers.

RUBBER.—No market, values nominal.

SENEGA.—No shipment offers, but re-sale of afloat at 2s. 5d. c.i.f., Spot, 2s. 7½d. to 2s. 9d. per lb., ex store.

SENNA.—Prices are nominally unchanged, with holders not anxious to do too much business.

SHELLAC.—No market, values nominal. Standard TN orange, 37s. 6d. to 40s. 6d. per cwt., ex store.

TRAGACANTH.—Brokers' offices closed, values nominally unchanged. Finest selected white ribbon, £60; No. 1, white, £55 to £57 10s.; No. 2, white, £50 to £53; No. 3, white, £35 to £42 10s.; amber leaf, £32; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; boggy, £6 to £7 per cwt., ex store.

TURMERIC.—Spot values nominal. Madras finger, 35s. Rajapore, 35s. per cwt., ex store.

WAXES.—Brokers' offices closed, values nominally unchanged on spot. No shipment prices. Dar-es-Salaam, spot, 100s.; Benguella, 90s. in bond; Conakry, 90s., in bond; Japanese spot, 74s., duty paid; for first three brands. Madagascar, F.d.e., 92s. 6d., duty paid. CARNAUBA.—Fatty grey, spot, 145s.; Chalky grey, spot, 137s. 6d.; Primeira, spot, good quality, 200s.; Mediana, spot, 190s.

### Essential and Expressed Oils, etc.

Few dealers are prepared to quote firm prices under present conditions, most preferring to await developments. Prices quoted in these products are mostly nominal, with former spot values adjusted to account for the depreciation in sterling on the various foreign currencies and the cost of war insurance. What business being transacted is, of course, confined to small spot orders from consumers.

ALMOND.—English-made, cwt. lots, 2s. 6d.; smaller parcels, up to 3s. per lb.; foreign, cwt. lots, 2s. 7½d.; smaller parcels, up to 3s. 3d. per lb. French, bitter, 6s. to 6s. 4½d. per lb.

ANISE (STAR).—Fair spot business; prices adjusted. Spot, leads, 3s. 7½d.; tins, 3s. 6d.; drums, 3s. 4½d. per lb., ex store; shipments nominal.

AVOCADO PEAR.—Californian oil available at 47s. 6d. to 55s. per gallon, as to quantity.

BAY.—Quoted nominally; priced at 4s. to 5s. per lb., as to quantity, in cases.

BERGAMOT.—The general idea of the spot value of genuine oil is about 15s. 9d. to 16s. 6d. per lb., as to quantity. No shipment offers.

CAJUPUT.—Spot values nominal; B.P., 2s. to 2s. 6d. per lb., as to quantity.

CANANGA.—Prices adjusted. Quoted on the spot at 4s. 9d. to 5s. 1½d. per lb., as to quantity and packing; shipment, nominal.

CARAWAY.—Further adjustment of prices for Dutch, which vary with exchange rate: Dutch rectified, from 8s. 3d. to 9s.; crude, from 8s. per lb., landed and duty paid. Russian double-distilled, about 8s. per lb., as to quantity.

CASSIA.—Prices adjusted at about 3s. 6d. to 3s. 7½d. per lb. in leads and 3s. 4½d. per lb. in drums, spot.

CEDARWOOD.—American adjusted on exchange: African, in drums, 1s. 2d.; smaller packages, up to 1s. 6d. per lb. American, in drums, 1s. 2½d.; smaller packages, up to 1s. 9d.

CINNAMON LEAF.—Spot values for repacked oil in limited quantities is now about 2s. 9d. to 3s. 3d. per lb., as to quantity.

CITRONELLA.—Business continues good; prices adjusted: Ceylon, spot, drums, around 1s. 9d.; smaller parcels, up to 2s. 3d.; Java, spot, drums, 2s.; smaller parcels, up to 2s. 6d.; shipment markets nominal.

CLOVE.—Prices adjusted: Madagascar, spot, drums 3s. per lb., if available; smaller parcels, up to 3s. 7½d. English distilled, 4s. 9d. to 5s. 3d. per lb., as to quality and quantity, ex store, nominal.

EUCALYPTUS.—Market is firm: shipment prices nominal: Spanish is offered at around 1s. 8d. per lb., c.i.f., as to packing, Australian, 70 to 75 per cent., tins, 1s. 10d.; drums, 1s. 9d.; 80 to 85 per cent., tins 2s. per lb. ex store; higher prices for smaller lots.

GERANIUM.—Prices adjusted on exchange: shipment markets nominal: Bourbon, spot, about 12s.; Algerian, spot, 12s. 4½d. to 13s.

HO (SHIU).—Nominal on spot with no bulk supplies and no shipment quotations.

JUNIPER BERRY.—Prices adjusted: Spot now about 3s. 7½d. to 4s. 6d. per lb. as to quantity and seller.

LEMON.—No shipment quotations for Sicilian. Dealers' ideas of spot values for genuine oil are in the region of 13s. to 14s. per lb., as to quantity and packing. Californian nominally unchanged and quoted in American currency.

LEMONGRASS.—Spot values adjusted; shipment nominal: Spot, from 1s. 11d. to 2s. 3d., as to quantity.

LIME.—Nominal as quoted: West Indian, distilled, 14s. to 15s. 6d. per lb., as to quantity and packing.

MANDARIN.—Spot value adjusted: spot, 15s. 9d. to 16s. 6d. per lb., as to quality.

NEROLI.—Spot supplies are now quoted in the region of 17s. 6d. to 18s. 6d. per oz., landed, for new-crop oil.

LINSEED OIL (RAW, NAKED).—No market, values nominal. Spot £30 per ton, ex Hull.

NUTMEG.—Dearer on exchange; no shipment quotations: Dutch and American, from 5s. 9d. to 6s. 6d. per lb. as to quantity.

ORANGE.—Fair spot business, prices adjusted: French Guinea, in drums, around 3s. to 3s. 2d. per lb., with re-packed oil in tins up to 3s. 9d.; shipment, round 2s. 4d., Californian, spot, in small drums or two or more cases, 58 cents per lb., ex store.

PALMAROSA.—Spot prices again adjusted: Spot, around 10s. 1½d. to 11s. 3d. per lb.; shipment, nominal.

PATCHOULI.—Spot, Singapore, adjusted to 13s.; Seychelles, 10s. 3d. to 10s. 6d.

PEPPERMINT.—Fair amount of spot business. Japanese, spot, 4s. 9d. to 4s. 10½d. and up to 5s. per lb., now indicated. No shipment offers.

PETITGRAIN.—Prices adjusted: spot, cases, 3s. 9d. to 4s. per lb.; shipment, nominal.

ROSEMARY.—Spanish is quoted at 3s. 1½d. to 3s. 6d. per lb., as to quality and quantity. Tunis, 2s. 10½d. to 3s. per lb., landed, as to quantity.

SANDALWOOD.—All East Indian oil is now quoted in the region of 21s. per lb. for one case, spot. West Indian, about 8s. 6d. per lb. Australian is nominally unchanged at 15s. 3d. per lb. for 7 lb. tins, one case at 14s. 9d., and five cases at 14s. 6d. per lb.

SASSAFRAS.—Prices again adjusted: best quality oil, 4s. 6d. to 5s. per lb., as to quantity. Other grades at less.

SPEARMINT.—Adjusted on exchange: U.S.P. oil, spot, about 9s. 6d. to 10s.

SPIKE.—Spanish quoted at 6s. to 6s. 9d. per lb., ex store, as to quantity and quality. Blended oils at cheaper rates.

TURPENTINE.—No market, values nominal. Spot, London, 50s. Hull, 54s. 6d. Liverpool, 57s. 6d. Details of London stocks not available.

VETIVERT.—Bourbon quoted on the spot at 16s. to 17s.; Java easier at 10s. to 10s. 6d. per lb., as to quantity.

WORMSEED.—Adjusted on exchange: U.S.P. oil, spot, 11s. 6d. to 12s.; shipment, nominal.



# Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## The Life of Paracelsus

SIR,—May I refer to "Xrayser's" generous mention (*C. & D.*, Sept. 2, p. 260) of my notes on Paracelsus, "who was poisoned ye 47th. yeare of his age"? He rightly says that "the accounts of his death differ, the primary cause being variously stated as excessive drinking, poisoning or some other form of murder." I had forgotten when I wrote the article on "Famous Medical Charlatans" that Mr. James Grier, M.Sc., Ph.C., in his excellent "History of Pharmacy" (1937) says that "Paracelsus is credited with having first produced absolute alcohol, and poisoned himself with it when taking it in the conviction that he had at last found the elixir of life" (p. 192). Mr. Grier's researches are so extensive and always so accurate that we may accept his version as being the likely one. Apart from the occultism and astrology of the famous alchemist and his boast that he had spirits of another sort at his command—one which he kept in the hilt of his sword and another in a jewel—he must be regarded as the founder of medical chemistry or iatrochemistry. Handicapped by the mysticism of his time he did much to discourage the use of the complex but meaningless electuaries of 300 years ago. He was an original investigator and a great Swiss thinker who kept an open mind.—Yours faithfully,

Edinburgh.

WILLIAM MAIR.

## "Mixture" in Pharmacy

SIR,—If it is not too late perhaps a few words may be added profitably to what has already appeared in your pages concerning both the word "mixture" and the thing. In respect of the word and its association with drugs it is of quite ancient origin as appears from Pliny's use of it (*Hist. Nat. lib. xiii*). When writing of perfumes and unguents he refers to a mixture (*mixtura*) of unguents. In his translation (1601) of this passage Philemon Holland makes use of the same word in English—mixture. As a term applicable to a class of medicines as known to us Mr. Henry Groves was not far wrong when he said it "cannot be of great antiquity." A little more definiteness may, however, be given to that remark and a little more emphasis to what your correspondent—"Student" (*C. & D.*, August 12, p. 216)—says in his letter and to the remarks, perspicuous as usual, of "Xrayser" (*C. & D.*, August 5, p. 150). The O.E.D. states that it was in use in a pharmaceutical sense at the end of the sixteenth century; but more light is thrown upon the use of the word by the English translation of Stephen Blancard's "Physical Dictionary" published in London in 1684. Blancard's explanation of it illustrates fully what has probably been its history down to the end of the seventeenth century. The following is his definition:—

*Mixtura.* A solid or liquid substance mixed together of several Medicines. Indeed mixtures are very different, according to the scope of the Physician; they are taken especially in Drops or Spoonfuls, and sometimes in Draughts, and are made either of Liquors only (such as Distil'd Waters, Spirits and Oil any way mingled together, as Waters with Waters, Oil with Oil, Waters with Spirits, etc.) or of Liquors with convenient Syrup, Powders, Confections, Opiates, all of 'em together, or only some.

The official pharmacopœias of this country will serve to illustrate what your contributors have already stated about the evolution of the mixture of to-day. In his comment on mixtures in his translation of the London Pharmacopœia of 1836 Richard Phillips says "The term mixture was originally employed in pharmacy to denote those preparations in which a soluble substance forming a viscid solution with water was used to suspend an insoluble one. . . . There are a few of the preparations now classed as mixtures which are scarcely included in this definition; and in prescribing the word *mixture* is frequently used to signify a compound, all the ingredients of which are in perfect solution." In the *Ph. Lond.* for 1746 there are the following preparations complying with Blancard's definition and with Phillips' description:—*Lac ammoniaci*, *emulsio commune* (almond mixture), *julepum e camphoræ*, *julepum e cretâ*, and *julepum e moscho*; all these were subsequently classed as mixtures.

Yours faithfully,

WILLIAM KIRKBY.

Bristol.

## Shop Lighting

SIR,—The regulations for shop lighting (*C. & D.*, September 2, p. 259) will provide some problems for retailers, especially chemists with small pharmacies. To build a false door with a light trap inside the pharmacy would take up most of the floor space available in some small premises, but without some such arrangement it is not easy to see how the escape of light can be prevented when customers enter or leave. Many of the modern fitted pharmacies have no inside blinds to the windows, such as the older shops used to have, and the whole of the windows, together with the space above them, will have to be blacked out in some way if there is to be any lighting at all in the interior. During the last war notice of impending air raids was received fairly early in the evening as a rule, with the result that all the people in the streets went home, and as there were no customers to serve, the shops closed down, so the lighting difficulty solved itself.—Yours faithfully,

TENEBRA (3/9).

## Consumers of Proprietary Medicines

SIR,—During "A Discussion on Proprietary Medicines" held at the North-East Lancashire Branch (*C. & D.*, August 26, p. 243) one member said that the first essential was to dispense with the necessity of patent medicines altogether by including women and children in National Health Insurance. It might dispense with the necessity, but I doubt very much if it would make any appreciable difference to the purchase or consumption of patent medicines if the whole population were eligible for medical benefit. Chemists, and particularly panel chemists, have daily evidence that customers buy advertised proprietaries before they go to the doctor, while they are being attended by the doctor, and after they have finished with him. A large proportion of proprietary medicines sold are probably consumed by chronic patients, people who have some complaint, such as rheumatism or chronic indigestion, which is not severe enough to incapacitate them, but yet makes them feel continually out of sorts and generally indisposed. Such cases as these go to the doctor until they are tired, and then they are ready to try any and every advertised remedy they see, trying one after another, and each new one is expected to provide the infallible cure. The peculiar part is, that although they complain the doctor's medicine has not cured them, yet they have renewed faith in every fresh patent brought to their notice, in spite of repeated failures. The trouble is that with these persons the ailment is such that they can only obtain temporary relief, but it is this condition which renders them amenable to the persuasion of the proprietary advertiser.—Yours faithfully,

MIST. BISMUTHI (28/7).

## Points from Letters

### Appreciation

Many thanks for your help on various occasions, and the assistance afforded by your paper week by week in the manifold problems of a pharmacist's vocation.—J. M. T. (20/7).

### Bottles for Hospital Out-Patients

In the article describing the pharmaceutical department of the new Westminster Hospital (*C. & D.*, August 12, p. 183) one of the paragraphs deals with the bottle-washing arrangements. As a panel chemist who has suffered much from the troubles arising out of bottles issued to, and returned by, insured persons, it would interest me to know what system is adopted in the hospital for the supply of bottles to out-patients. My only experience on the out-patients' side of a hospital dispensary was on one occasion when I accompanied someone who had to go for treatment. I volunteered to go to the dispensary and wait for the medicine; as I had no bottle, I was directed to a bottle store, where I had to pay threepence, and I was given a bottle which had started its career as a proprietary cough mixture container, the name of the preparation being moulded in the glass.—*Bottiglia* (14/8).



## Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

**S. H. R. (18/8).—LUMINOUS PAINT.**—The following formulas are representative of the type of preparations used for luminous paint bases by mixing with a varnish or drying oil:—

I	
Strontium carbonate .. .. .	100
Sulphur .. .. .	30
Sodium carbonate .. .. .	2
Sodium chloride .. .. .	0.5
Manganese chloride .. .. .	0.2

The mixture is heated in a crucible for three-quarters of an hour at about 1,300° C.

II	
Strontium thiosulphate .. .. .	60 gm.
Bismuth nitrate (0.5 per cent. solution in acidified alcohol) .. .. .	12 c.c.
Uranium nitrate (0.5 per cent. solution in alcohol) .. .. .	6 c.c.

Heat the mass for three-quarters of an hour at 1,300° C. This emits an emerald-green light.

**D. McI. (31/7).—FISHING LINES.**—These can be waterproofed by applying the following preparation to the line with a flannel:—  
Boiled linseed oil .. .. . 2 parts  
Gold size .. .. . 1 part

**P. M. W. (18/8).—PONDER'S STAIN.**—The formula for this stain, which is used for *Corynebacterium diphtheriae*, is as follows:—

Toluidine blue .. .. .	0.02 gm.
Glacial acetic acid .. .. .	1 c.c.
Dehydrated alcohol .. .. .	2 c.c.
Water .. .. .	to 100 c.c.

**P. A. B. (22/8).—SCOUR MIXTURE FOR CALVES.**—The following is taken from "Veterinary Counter Practice":—

Chlorodyni .. .. .	2 oz.
Sodii bicarb. .. .. .	2 oz.
Æther. sulph. .. .. .	1 oz.
Tinct. card. co. .. .. .	2 oz.
Aquam .. .. .	ad 12 oz.

A wineglassful to be given daily in boiled milk or flour gruel. Infusions of astringent barks, such as oak and elm, are also used in this complaint, and the admixture of a fourth part of lime water with this milk is also recommended.

**C. A. (30/8).—AFTER-SHAVE LOTION.**—The following are formulas for after-shave lotions.

*Spirituos:—*

Glycerin .. .. .	2 oz.
Witch hazel .. .. .	3 oz.
Spirit .. .. .	3 oz.
Menthol .. .. .	10 gr.
Perfume .. .. .	as desired
Distilled water .. .. .	to 20 oz.

We think the following would produce a preparation of the other type of shaving lotion you refer to:—

White wax .. .. .	25 gm.
Lard .. .. .	37.5 gm.
Hard soap, in powder .. .. .	25 gm.
Glycerin .. .. .	25 c.c.
Expressed almond oil .. .. .	37.5 c.c.
Oil of rose .. .. .	0.5 c.c.
Chloroform .. .. .	5.2 c.c.
Distilled water .. .. .	a sufficiency
To make .. .. .	1000 c.c.

Heat the wax and lard with the expressed almond oil on a water bath until melted and pour the mixture into a warm mortar. Then add the soap, glycerin, oil of rose and chloroform, and add gradually sufficient distilled water, stirring briskly after each addition, to make the product measure 1000 c.c.

**P. J. P. (25/8).—CYANIDE FUMIGATION.**—As you do not mention the purpose for which this is required, we can only give you general information on the subject. The following is taken from "Pharmaceutical Formulas," Vol. II, where you will find the matter dealt with fully. For every 1,000 cubic feet of space, add 4 oz. of sulphuric acid to 7 oz. of water in a jar, then take 2 oz. of sodium or potassium cyanide, which should be wrapped in blotting paper and dropped in the acid from a stick held at arm's length. The room should be sealed and should remain closed for three quarters of an hour at least, after which time it should be opened to ventilate.

**T. F. L. (25/8).—ANTI-STEAMING PREPARATIONS.**—The following formulas, taken from "Pharmaceutical Formulas," Vol. II, will probably be of service to you:—

Yellow soap .. .. .	4 oz.
Glycerin .. .. .	2 oz.
Hot water .. .. .	12 oz.

Mix the cut-up soap with the hot water until a cream results, then add the glycerin.

Sodium chloride .. .. .	1 dr.
Glycerin .. .. .	2 oz.
Water .. .. .	1 oz.

**E. B. (25/8).—DESTROYING GARDEN REFUSE.**—Ammonium sulphate, lime and occasionally calcium cyanamide are used for this purpose. The chemicals are usually sprinkled lightly on the heap and separated by thin layers of refuse.

**W. G. & S. (28/8).—POULTRY SPICE.**—The following is taken from "Pharmaceutical Formulas," Vol. II:—

Fenugreek .. .. .	12 oz.
Ground mustard .. .. .	2 oz.
Fine oyster shell .. .. .	2 oz.
Iron sesquioxide .. .. .	2 oz.

A teaspoonful to be given to every ten fowls in the warm soft food every morning.

**CATTLE CONDIMENT.**—The following formula will probably suit your purpose:—

Table salt .. .. .	8 lb.
Barley meal .. .. .	8 lb.
Ground rice .. .. .	4 lb.
Pea meal .. .. .	4 lb.
Linseed meal .. .. .	4 lb.
Powdered gentian .. .. .	1 lb.
Powdered fennel .. .. .	1 lb.
Powdered fenugreek .. .. .	1 lb.

A few tablespoonfuls with each morning and evening feed.

**C. L. (28/8).—PEDICULOSIS CORPORIS.**—The treatment for lice on the human body is similar to that used in scabies, and a bath followed by one or two inunctions of sulphur ointment and the disinfection of the underwear is usually sufficient to eradicate the infection.

**A. E. B. (28/8).—BLEACH OINTMENT.**—The preparation given in the Air Raid Precautions Handbook No. 4 consists of a mixture of equal parts of vaseline and bleaching powder. The most satisfactory method of use is stated to be swabbing the surface first with paraffin and then smearing with the bleach ointment.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," September 7, 1889

### A Lengthy Strike

The great dock strike, after having paralysed the commercial life of London for nearly three weeks, appears to be tending towards settlement through the virtual concession of the men's demands by the principal private wharfingers, and unless some fresh hitch occurs it is probable that before many days are over the dock companies will, with as much good grace as they can muster, decide to pay their labourers the same scale of wages as the largest of their competitors have now conceded. And the spirit of reasonableness which has now come over the negotiators also makes it likely that the grievances of the lightermen, without whose co-operation the return of the dock labourers would, in the long run, be of little use, will be settled in a manner more or less satisfactory to the strikers. Not only the City merchants, but everyone connected with the Metropolis, will feel intensely relieved by the cessation of a strike which is causing incalculable loss to the port of London. Whether the strike will have the effect of permanently injuring the trade of London is a matter for conjecture, but we are inclined to believe that the raising of the status of the labourers, which will follow from the movement, and the fact that a sweeping reform of the London dock management has now been made inevitable, will at least balance the money loss to the community.



*We were hoping in this Issue to have invited all our friends to visit us at the Chemists' Exhibition.*

*This, however, like so many other good things in life at the moment, has been cancelled. Instead, we take the opportunity of assuring our many friends in the United Kingdom and abroad that we shall use every endeavour to give the best possible service in what are bound to be difficult times.*

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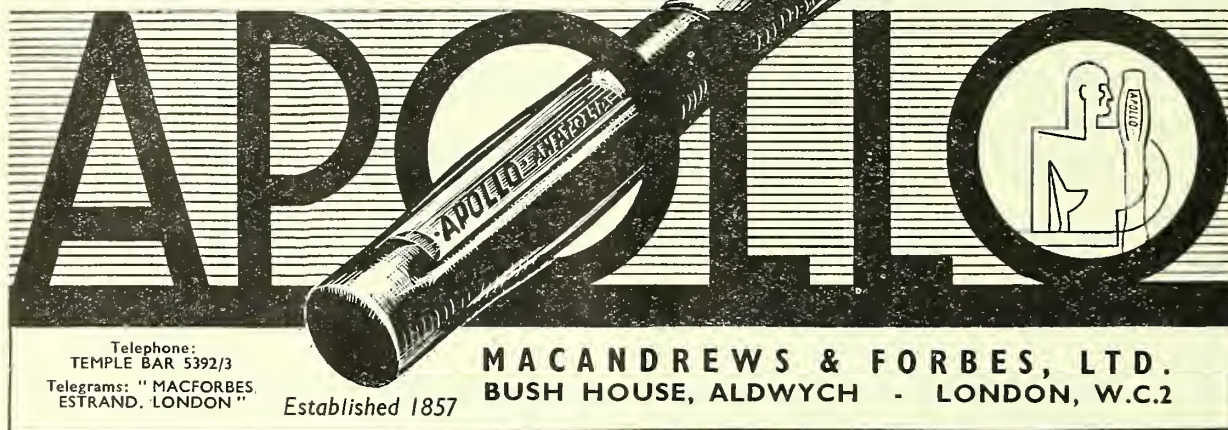
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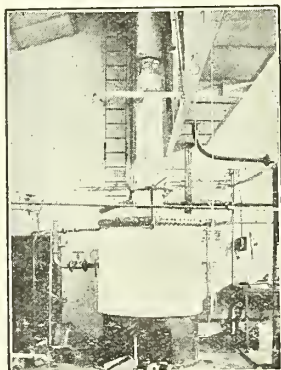
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THE CHEMIST & DRUGGIST DIARY AND YEAR-BOOK, 1936

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1 oz. CELLULOSE PACKETS**



# Paraffinum Liquidum B.P.

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'Dettolin' gargle and mouthwash  
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Aqua dest. ad. 100 vols.

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## Gargle and Mouthwash

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(PHARMACEUTICAL DEPARTMENT, HULL)



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By appointment to the  
late King George V.

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ALL SPECIFIC GRAVITIES GUARANTEED TO REMAIN BRIGHT AT 0°C

**B.P. WHITE & YELLOW PETROLEUM JELLIES**

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We have just produced a new series of Packed Goods Labels. It is an attractive coloured label, neat in design, and the wording perfectly distinct and legible. Ideal for Modern Windows. Bow Fronted Panel Bottles with Bakelite Screw Caps are used wherever possible throughout the series. The spacing and setting of the name and address is given special care and attention.

Lastly, but most important of all, the quality of the ingredients is the finest possible.

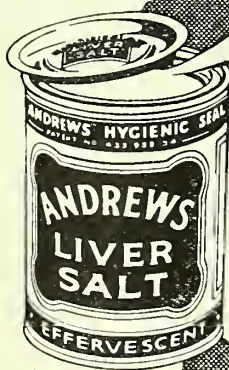
Modern Windows, Counters and Cases deserve Modern Labels.

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for  
**ANDREWS**  
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We welcome your enquiries for:-

# Tablets & Capsules

WE CAN QUOTE YOU VERY FAVOURABLE PRICES FOR BULK OR PACKED  
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*And now*

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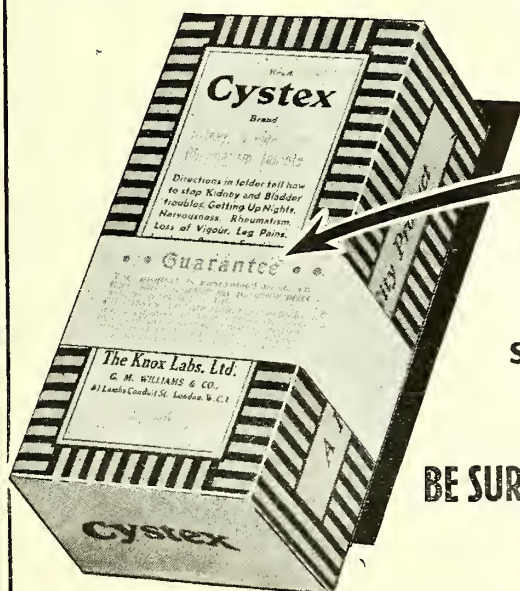
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BE SURE YOU HAVE AMPLE STOCKS OF ALL 3 SIZES

**1/3, 3/- & 6/-**

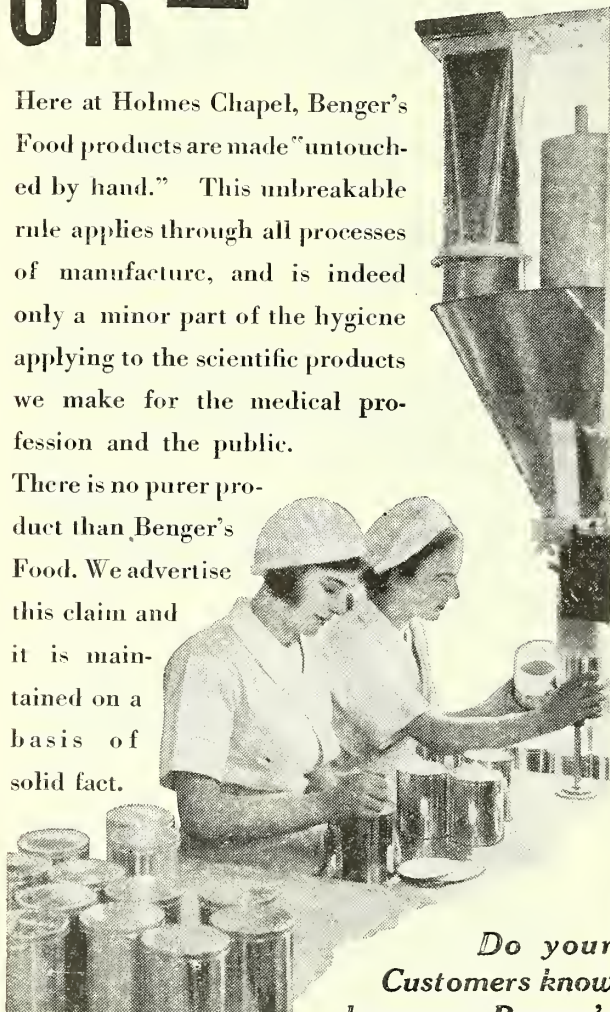
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Here at Holmes Chapel, Benger's Food products are made "untouched by hand." This unbreakable rule applies through all processes of manufacture, and is indeed only a minor part of the hygiene applying to the scientific products we make for the medical profession and the public.

There is no purer product than Benger's Food. We advertise this claim and it is maintained on a basis of solid fact.



*Do your  
Customers know  
how easy Benger's  
is to make?*

Here, for example, are two girls working one of the many filling machines. They are alert workers, for the filling work is fast, and if an accidental slip brings the food in contact with the fillers' hands, away it goes to the discard.

Just take half a pint of milk and bring it to the boil. Whilst the milk is heating, take a level tablespoonful of Benger's Food and mix to a smooth cream in a basin with four tablespoonsful of cold water. Take the boiling milk, and immediately it begins to settle in the pan pour slowly (taking about thirty seconds) on the cold mixture, stirring all the time. When cool enough, the Food is ready to drink. Add sugar to taste. No more trouble than that!



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Enthusiastic medical recommendation has rapidly established big sales for BARLUZE... the extra rich Glucose Fluid Food, used as EXTRA nourishment for adults, invaluable in all cases of illness, and VITAL food for growing children. An analysis of orders from Chemists stocking BARLUZE proves frequent repeat orders at remarkable short intervals. Doctors believe in BARLUZE... that's why it's "Live Stock"!

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Send for Trial Bottle, Counter  
Display and Trade Terms

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Product of THE DEASON CHEMICAL CO. (1938)  
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THE WONDERFUL MEDICAL RESTORATIVE

which brings immediate relief in all cases of Neurasthenia, Insomnia, Nerve Strain, Depression, Inability to Concentrate, General Weakness, Hardening of the Arteries, Tired and Listless Appearance, Mental and Physical Exhaustion.


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From all Wholesale Houses.

Samona Brand Tablets are supplied in two forms: No. 1 for Men (orange tablets);

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Our attractive showcard in colours. Have you got yours? Sent carriage paid with free pack for display. Apply to Samona Ltd., 16 Charterhouse Street, London, E.C.1.



- PETROLEUM JELLIES
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By displaying this attractive counter display of 1 dozen 1/- tubes.

Display cards and cartons of 1 doz. 6d. tubes.

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**SHOW ATTRACTIVE PROFIT.**

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Popular medicaments in an energizing GLUCOSE base

Have you got supplies?

The demand increases every day. Free Window Display Stands backed up by consistent advertising in the Medical and National Press are helping to achieve this.

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**SIMPKINS — Barley Sugar Works — SHEFFIELD, 6.**

The range includes

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Full list including special terms with Window Displays gladly sent on request.

**NOW SOLD IN**  
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is a natural food which supplies the body not only with vitamins and health, but with power to resist infection. Children and adults should provide for extra energy by taking a daily quantity of Norwegian Cod Liver Oil. They need its wealth of vitamins and calories.

There is no efficient substitute for

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World famous for its high quality. The genuine oil is controlled by the Norwegian Government, and accompanied by a Certificate of Control.

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Let us design your Pharmacy.  
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Grams: PACKING PHONE LEEDS



# A GOOD BONUS IS GOOD BUSINESS

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Invest in our New Bonus Offer — and gain a worth-while dividend. This New Bonus Scheme, offered by the makers of “SevenSeaS,” the new, sea-fresh, pleasant-to-take cod liver oil, gives you:—

ON ORDERS OF 3 DOZEN	<b>1 FREE PACK</b> with each dozen
ON ORDERS OF 6 DOZEN	<b>2 FREE PACKS</b> with each dozen
ON ORDERS OF 1 GROSS	<b>3 FREE PACKS</b> with each dozen

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The only condition is that you order *one* dozen of each kind decided upon. That is to say, if your market is Standard Oil, you can order 4 oz. 8 oz. or 16 oz. packs but a dozen must be taken of each to obtain the bonus offer.

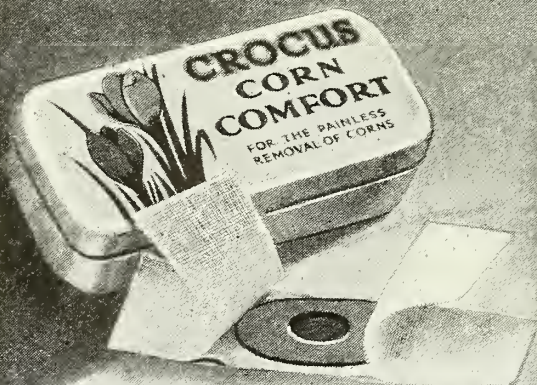
Delivery of the one gross order can be taken in 3 dozen lots or 6 dozen lots, on dates to be agreed upon. Similarly, the 6 dozen order can be taken in 3 dozen lots.

Advertising in National papers and Women's Magazines will create a nation-wide demand this season for SevenSeaS. Keep your stocks well up. Make full use of window and counter displays.

Write at once to BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. St. Andrew's Dock, Hull



A New Line in Corn Plasters  
'CROCUS'  
**CORN COMFORT**



Ask for  
details of  
our  
Special Offer

ATTRACTIVELY PACKED  
IN DECORATED TIN BOXES  
CONTAINING 6 PLASTERS  
OBTAINABLE FROM YOUR  
USUAL WHOLESALER

LIBERAL TERMS

**W. MATHER LTD.**  
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**Appoint**

**BURGE, WARREN & RIDGLEY**

**your suppliers of**

Druggists' Sundries, Rubber Surgical Appliances,  
Toilet Requisites, Toilet Preparations, Per-  
fumery, and Birth Control Requisites of every  
description

There are many alternative sources of supply, but you will not find it easy to discover a combination of high quality goods and competitive prices such as we can offer you. Our SAFETEX, SIMPLEX & SAFEGUARD Brands of Condoms represent the highest standards of quality obtainable to-day. They are "chemists only" lines, and you should certainly have price lists and samples in your possession. These will gladly be sent upon request.

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**Preliminary Scientific Examination**

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**London B. Pharm. Degree**

Lectures, Laboratory and tutorial instruction in subjects for the Examinations of the Pharmaceutical Society of Great Britain and the University of London. The Session extends over three terms from October to June.

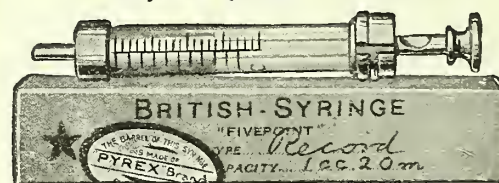
Students wishing to enrol should make application as early as possible.

**Session begins Monday, 9th October, 1939**

FEES, £26 5s. Matriculation Fee, 10s.

Prospectus sent free on application

RECORD  FIVEPOINT SYRINGES



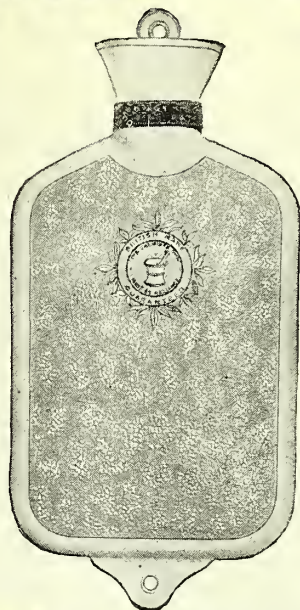
**HYPODERMIC & SURGICAL SYRINGES OF ALL TYPES**  
Wholesale & Export only. For particulars apply to the Manufacturers  
**GENERAL SURGICAL COMPANY LTD.**  
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**For Maximum  
Turnover in  
SANITARY TOWELS  
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## Hot Water Bottle



There is no better value anywhere, and these 4 reasons tell why you should consider our No. 911 "Chemists' Own" hot water bottle—

1. It is coloured in pastel shades, appealing to women, your chief buyers.
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3. It is full size 3 capacity and has strongly reinforced edges.
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In no other COMPETITIVE line will you get ALL these points of quality—and—the bottle is sold only to Chemists—a reservation which safeguards your profit and protects your reputation.

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ON CARDS OF ONE DOZEN

The finest and most economical pack ever offered! Each plaster individually secured on the trans-wrapped card to prevent spilling when envelope is opened. Super-adhesive isinglass type plasters of whitest felt. This latest pack can be displayed in the minimum of space and will bring you that extra business without effort.

Prices: A.5 Cards of 12 Thin @ 2/- dozen cards  
Usual terms. A.13 Cards of 12 Thick @ 2/6 „ „

**SOLPORT BROTHERS LTD., of Goswell Road, LONDON**



WHOLESALE & EXPORT ONLY

## HYPODERMIC NEEDLES

OF ALL DESCRIPTIONS

S.&R.J.  
**EVERETT**  
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Original makers of  
**STAINLESS STEEL NEEDLES**

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## NEW FIELD OF GLASS CONTAINER



Manufactured in best quality  
white flint—WITH USUAL  
"NATIONAL" CARTON  
PACKING.

Can be supplied complete with  
screw caps.

MAY WE ADVISE YOU THE NAME AND  
ADDRESS OF NEAREST "NATIONAL" STOCKIST?

### NATIONAL GLASS WORKS (YORK) LTD.

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London Office: First Avenue House, High Holborn, W.C.1 Phone: Holborn 2146

THE

## Q.P. EMULSIFIER

A MANUFACTORY IN  
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With a "Q.P." Emulsifier you can make  
your own Hair Cream, Hand Lotions and  
other preparations.

Gum solutions and oil can be emulsified  
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cream, equal in appearance and texture  
to the most expensive preparations on  
the market. By making a speciality of  
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All the working parts are of stainless  
metal. PRICE COMPLETE

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Sole  
Manufacturers

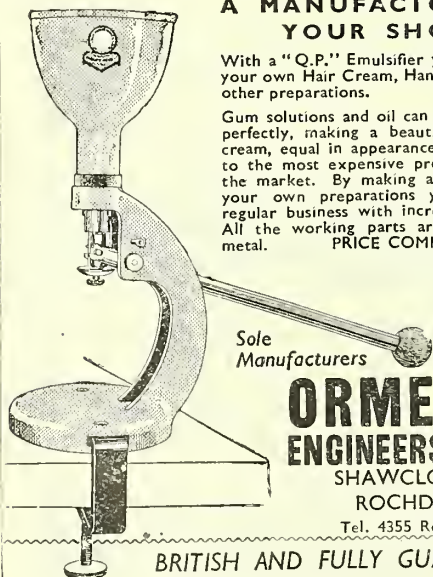
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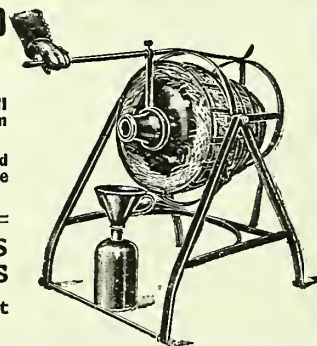
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For drawing off small  
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Carboys.

The Carboy can be tipped  
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**LEIGH & SONS  
METAL WORKS**

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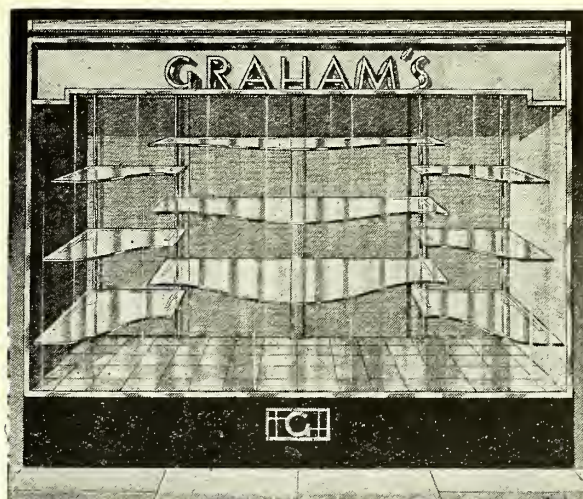
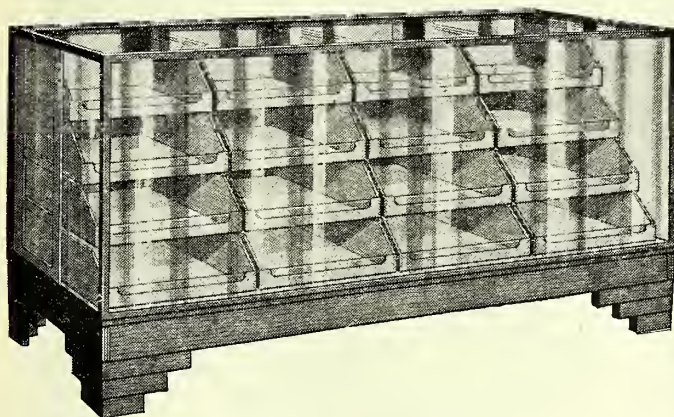


L.T.S



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The QUICKSERVING COUNTER on the left, with Polished Light Oak Frame, with top, front and ends of  $\frac{1}{2}$ -in. Drawn Plate Glass, is 6 ft. long  $\times$  3 ft. high  $\times$  2 ft. deep. Fitted with 16 trays, each  $15\frac{1}{2}$  ins. wide  $\times$  5 ins. high. No. C.S.F. 5861, £13.7.6

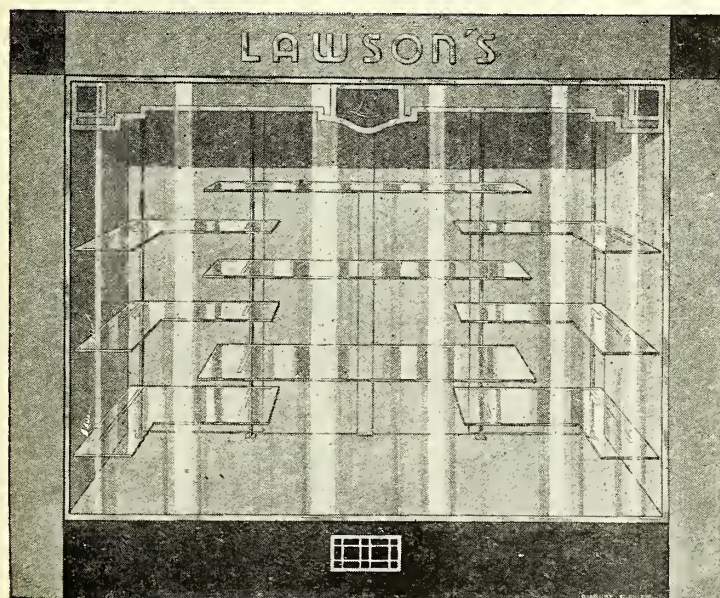
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We supply all the retailer needs other than stock. Any of the following lists will be gladly sent on request: Counters and Showcases—Cash Tills—Display Stands and Figures—Scales and Slicing Machines—Window Display Matter—Advertising Calendars—Price Tickets and Showcards—Sale Posters and Tickets—Shop and Office Furniture—Xmas Displays—Stationery—Stock Blocks—Typewriters—Carnival Novelties.

**DUDLEY & CO. (Dept. C.D.3), 451 Holloway Rd., LONDON, N.7**

City Showrooms: 65 Fore St., E.C.

Phone: ARChway 4221



On the left is our "GROSVENOR" WINDOW DISPLAY, suitable for any window up to 9 ft. wide  $\times$  3 ft. deep. No. C.S.F. 5887, comprising all shelves and fittings as shown, £9.6.0

Write for details of deferred terms







# UNIVERSAL

# *Glycerine*

**CHEMICALLY PURE B.P.**

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Made from our own raw materials at our works in Ruabon, N. Wales, where the most rigid quality control is maintained.

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VICTORIA STATION HOUSE, LONDON, S.W.1  
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CANADA: 378, ST. PAUL STREET W., MONTREAL, QUE.



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BRITISH MADE

THE CHOICE  
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EXPERTS

NO HIGHER  
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Efficient Wholesale Facilities for In-  
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Those who wish to exploit the Market  
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**LENNON LIMITED,**  
12/14 LAFONE STREET,  
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THE  
“MEAD” ARM SLING

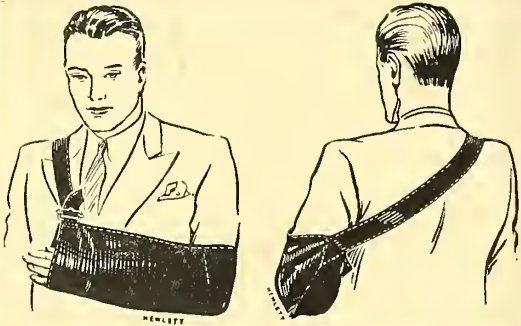
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**ADVANTAGES**

1. Can be used for either arm.
2. Weight carried by the shoulder, not by the neck.
3. Adjusted easily by a non-slipping buckle.
4. Made of strong gingham, is light and washable.

**APPROVED BY THE MEDICAL PROFESSION**  
Price: 27/- per dozen; Less than  $\frac{1}{2}$  dozen 3/- each.  
*Also smaller size for children*

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WE SPECIALIZE IN  
THE MANUFACTURE OF  
**GALLIC ACID-PYROGALLIC ACID**

PURE & TECHNICAL

RESUBLIMED, PURE CRYSTAL & TECHNICAL

**WHOLESALE & EXPORT ONLY. Enquiries Invited**

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# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

SEPT. 9,  
• 1939 •

## IMPORTANT

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28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "CHEMICUS," Estrand, London.

Telephone: Central 6565 (10 lines).

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Enquiries Invited.

### BUSINESSES FOR DISPOSAL

**CROYDON.**—Family Retail Dispensing Business for disposal, lock-up, double-fronted shop, fitted light oak and plate-glass; 16 years lease at £104 per annum; returns approximately £23 per week, N.H.I. £7 per month; stock at £200. Further particulars, apply Mr. P. S. Booth, Kimberley House, Holborn Viaduct, London, E.C.1.

**HOUSE,** Shop, Parlour, 6 rooms, Kitchen Garden. Wholesale Retail Chemists, Surgical Rubber Goods. Old established, 30 years. Lease; rates £50; ground rent £14. Giving up, ill health. Main road. Let top part £2 week. Price £1,400. J. Ginsberg, 105 Stoke Newington Road, London, N.16.

### PREMISES WANTED

**£6,000** CASH available for one or two Freeholds (the business not wanted); proprietor can remain tenant or sell concern elsewhere; all I want is a sound rent-producing investment. Communicate "Retired," c/o Christie & Co., 7 Baker Street, W.1.

### AGENCIES

**ON** account of the national situation a firm with a sound connection among Chemists in Somerset, Gloucestershire, Wiltshire, South Wales, Northamptonshire, Leicestershire, Nottinghamshire, are open to take an Agency for good established lines. Representatives over military age. 356/974, Office of this Paper.

### PATENTS

**THE** Owners of Patent No. 376149 for MANUFACTURE OF NUTRITIVE PREPARATIONS CONTAINING MORE PARTICULARLY VITAMIN B AND ALL NUTRITIVE INGREDIENTS IN YEAST desire to meet all demands for its utilisation and invite enquiries from parties in Great Britain prepared to assist in commercially exploiting the same. Address in first instance Messrs. Dicker, Pollak, Mercer, Tench & Meyer, 20-23, Holborn, London, E.C.1.

### NOTICE

## To become a sales manager

If this is your ambition you must qualify yourself by study: life is too short to learn everything by actual experience. Courses of study in Sales Management at many evening schools and in correspondence courses are now about to start.

The Incorporated Sales Managers' Association will hold its twelfth annual examinations in June, 1940, in principal centres in Great Britain and overseas. It grants a Diploma to every student passing the examination and awards special prizes of a Medal, 15 gns. cash and 5 gns. cash. Possession of the Diploma is a qualification for Associate Membership after passing the Final Examination.

● **What to do.** Write to the General Secretary, Incorporated Sales Managers' Association, Dept. L, 23 Bedford Square, W.C.1, for syllabus of subjects and full information. Then enquire from your local Education Authority for courses of study.

### SITUATIONS OPEN

#### RETAIL (HOME)

6s. for 40 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

**NEWBURY, BERKS.**—Required at once, fully qualified Male or Female Dispenser for high-class business.—Apply Henry Davis (Newbury), Ltd., 36-37 Northbrook Street, Newbury.

**A** COMFORTABLE position awaits a progressive young unqualified assistant for high class pharmacy. Easy hours. Accurate dispenser and good window dresser essential. Please state age, height, experience with photo and salary required to Allen & Lloyd, Ltd., Wellington Street, Aldershot.

**A** SSISTANT, Young, Unqualified, for South Coast town. Accurate Dispenser. Good appearance for high class Pharmacy. Apply with salary required, references and photo. 85/8, Office of this Paper.

**F**EMALE Assistant required for middle and working class business. Good general experience necessary. Good prospects for young and willing worker. Cartwrights Chemists, 128 Balls Pond Road, N.1.

**N**ON-VULNERABLE Seaside Town; Lady Assistant wanted as soon as possible for good-class retail and dispensing business. State salary required; age; references and photo to Kirkman, Chemist, New Milton.



**SITUATIONS OPEN (continued)**

**Q**UALIFIED Assistant required. Lady preferred. Good dispensing and counter experience. Apply, giving fullest particulars in first instance, T. G. Stewart, Chemist, Bracknell.

**Q**UALIFIED Chemist required as Manager for new pharmacy. Candidate must have experience of control, buying, and must be good window dresser. Applications, giving age and full particulars of past experience, to Secretary, Eccles & District Co-operative Society, Peel Street, Eccles, not later than Saturday, 16th September, 1939.

**S**MART Unqualified junior required for retail and dispensing business. State age, height, experience and salary required to F. M. Rimmington & Son, Ltd., 9 Bridge Street, Bradford.

**U**NQUALIFIED Assistant wanted. Apply with full particulars, giving age, height, experience, salary and references. Jackson, Chemist, 97 Fore Street, Ipswich.

**U**NQUALIFIED Assistant wanted; must be a good counterman and window-dresser; experience and salary in first letter to H. Hague, M.P.S., 228 Soho Road, Birmingham.

**U**NQUALIFIED Junior Assistant (male), required Sept. 18, for branch at Heathfield, Sussex. One just finished apprenticeship would suit.—Write, stating experience, salary required, and enclose photograph, to A. Procter & Son, Ltd., 6 Station Parade, Eastbourne.

**U**NQUALIFIED Junior Assistant required for middle-class Family business; must be good worker and intelligent. Commence at £2 10s. per week. Apply with full particulars, photo if possible, stating when free, to H. G. Rix, 30 Church Street, Caversham, Reading.

**W**ANTED at Once. Unqualified (lady or gentleman) Assistant, for Dispensing and Counter. State age, wages, and references; Reading district. Apply in first instance to Chemist, c/o 7 Cromwell Road, Caversham, near Reading.

**W**ANTED, Unqualified Assistant Lady, for country district (Dispensing, etc.), suddenly enlarged, to cope with women and children evacuated. **SAFE AREA.** Please state experience, salary required, and references. Baugh, Ongar, Essex.

**LOCUMS AND SEASONAL VACANCIES**

**L**OCUM, Qualified; excellent experience; free Sept. 10–Sept. 24, inclusive. Full particulars on inquiry. Barton, 30 Downsview Road, S.E.19.

**WHOLESALE**

**R**EPRESENTATIVE Wanted, on Commission basis, for Omniped Foot Cushions. Write, stating experience, lines handled, and area covered. International Foot Appliances, Ltd., 92 Baker Street, London, W.1.

**SITUATIONS WANTED****RETAIL (HOME)**

2s. for 18 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

**A.A.A.A.**—Manager (38), Qualified, desires post West End or near; extensive managerial and West End experience; excellent sales record; smart appearance, good address and personality; used to high-class Toilets and Cosmetics (Arden Rubenstein, Cylax, etc.); good window dresser and sales organiser; interview. Chemist, 16 Harrow Lodge, St. John's Wood Road, N.W.8.

**A.**—EXPERIENCED Assistant, all branches; prize photo; tall, slim; abstainer; good London refs.; unqualified. "Mac.", 5 Sandwell Crescent, West Hampstead, N.W.6.

**A**SSISTANT, competent Dispenser, Salesman. Photo, single, active, elderly, unqualified. Llatin, 9 Long Grove Avenue, Dalton, Huddersfield.

**A**SSISTANT desires change, Unqualified, married (43); twenty years' experience good-class Pharmacy; present situation seven years; careful Dispenser, active, keen Counterman; excellent references. Statim, 3 Summerheath Road, Hailsham, Sussex.

**A**SSISTANT, Unqualified; experienced first-class Pharmacies West End and Continent, desires Temporary or Permanent position from Sept. 11. Accurate dispenser; good counter manner; sound references present and past employers; fluent French. "S.", 2 Buckley Road, Kilburn, N.W.6.

**A**SSISTANT, 25 years, current ref., requires change. Active, wide experience, dispensing preferred. Mr. F. Simmons, 27 Montague Street, Worthing.

**CHEMIST**, locum or permanency. Experienced, recommended, disengaged September 11–23, October 2 onwards. Chemist, 433 King's Road, Chelsea, London, S.W.10.

**E**XPERIENCED, Middle-aged Unregistered; reliable and well recommended; 17 years last post; over 25 years Retail and Dispensing. Used Complete Control; Free Now. 85/10, Office of this Paper.

**E**XPERIENCED Pharmacist seeks position offering Scope; accustomed Control, Photographs, Optics. Free Sept. 16. "Chemist," c/o Cole, Chemist, Irthlingborough.

**ALL HOSPITAL PHARMACISTS & DISPENSERS SHOULD JOIN AT ONCE****The National Assoc. of Chemists' Assistants**

INCORPORATED IN THE CHEMICAL WORKERS' UNION  
**BENEFITS:** Trade Protection, Legal Aid, Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec.,  
149 Newington Causeway, London, S.E.1

**L**ADY, Hall Dispenser's Certificate, requires Post in Hospital, Surgery, or Shop; good Testimonials; free now. 84/10, Office of this Paper.

**L**OCUM or Emergency Assistant; 56; qualified, active, reliable, good references; disengaged September 11 to September 30 inclusive. "Chemist," 63 Washington Avenue, Easton, Bristol, 5.

**R**EGISTERED Pharmacist (55), requires Responsible Post; First-class References. "Chemist," Bryona, Station Road, Amersham, Bucks.

**U**NQUALIFIED (46), single, seeks position; go anywhere; experienced and conscientious; undeniable references; minimum salary; free shortly. 85/7, Office of this Paper.

**LOCUMS SEEKING ENGAGEMENTS**

**C**HEMIST, locum or permanency, experienced; recommended; disengaged October 2; London or provinces; anywhere. "Chemist," 433 King's Road, Chelsea, London, S.W.10.

**L**ADY Dispenser Book-keeper; Hall experienced; good references; requires post locum or permanent. Miss Botting, 64 Clapham Road, Bedford.

**L**ADY, Unqualified, seeks post. Dispensing and Counter. Free September 4. Locum or permanency. "Chemist," 7 Dunbar Road, Forest Gate, E.7.

**M.P.S.** Experienced Locum, highest credentials. Free Sept. 18. Locum or permanency. "Chemist," 104 Lansdowne Drive, E.8.

**U**NQUALIFIED Locum (25), Finished P. II; any weeks September 4–23. London area preferred. Apply 85/3, Office of this Paper.

**WHOLESALE**

**A**N active Representative; 43 years, strong connection North of England and North Wales. Edwards, 71 Egerton Street, Wallasey.

**G**ENTLEMAN seeks position as Representative. Ten years' experience in Retail; excellent references. 30 Belfield Road, West Ewell, Surrey.

**R**EPRESENTATIVE, 20 years' connection Eastern counties, Kent and Sussex; past 10 years with well-known German house; now free; over 1,000 accounts chemists stores, etc. 87/2, Office of this Paper.

**MISCELLANEOUS**

**M**YERS OF OLD STREET. "The Pharmacy Fitters," for Drug Runs, Wall Cases, Counters, Sereus, etc. Designs and Estimates free for Inexpensive and Effective Shopfronts. Send requirements, or representative will call if desired, and estimate at once. Our new Illustrated Catalogue of Pharmacy Fittings is ready. Write for your copy to-day. L. MYERS, 133/5 Old Street, London, E.C.1. Clerk, 6381.

**R**UDDUCK & CO. (Shopfitters) will be pleased to give every assistance to Chemists opening new shops or refitting existing Pharmacies; drawings and estimates of shop fronts and interior fittings prepared FREE. A large selection of new and reconditioned fittings are available. Courteous attention assured. Write or call, RUDDUCK & CO., 219–227 Old Street, London, E.C.1. Telephone: CLerkenwell 3782.

**£?**—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our Showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

**EXCHANGE COLUMN****FOR DISPOSAL**

**P**RINTING Press, with Type, 22s. 6d.; bargain. Particulars, W. Webster, 291 Normanton Road, Derby.







